

GWAS meta-analysis of 16,852 women identifies new susceptibility locus for endometrial cancer.

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Abstract

Endometrial cancer is the most common gynecological malignancy in the developed world. Although there is evidence of genetic predisposition to the disease, most of the genetic risk remains unexplained. We present the meta-analysis results of four GWAS (4,907 cases and 11,945 controls total) in women of European ancestry. We describe one new locus reaching genome-wide significance ($P < 5 \times 10^{-8}$) at 6p22.3 (rs1740828; $P = 2.29 \times 10^{-8}$, OR = 1.20), providing evidence of an additional region of interest for genetic susceptibility to endometrial cancer.

Introduction

Endometrial carcinoma (EC), which arises from the epithelial lining of the uterus, is the sixth most common cancer among females worldwide and the most common gynecological malignancy in developed countries(1). According to SEER data(2), between 2005 and 2011, 18.3% of women with EC in the United States did not survive five or more years after diagnosis. Incidence rates of EC in developed countries are increasing over time(3, 4), with most diagnoses made after age 55, making this a significant concern for older women in an aging population. A number of modifiable risk factors have been established, including obesity, estrogen-only post-menopausal hormone therapy, and reproductive history. However, not much is known about the genetic etiology of EC.

Evidence suggests a component of genetic predisposition to EC. Multiple studies have seen a greater than two-fold risk in those with a family history of EC(5–7) and risk for women with first-degree female relatives with early onset disease increases nearly three-fold(8).

Additionally, women with Lynch Syndrome, a hereditary autosomal dominant genetic condition due to germline pathogenic variants in DNA mismatch repair genes, have an estimated lifetime risk of EC between 40-70%(9). Heritability estimates for EC are as high as 52%(10–12), though inconsistency in heritability estimates indicate the true value is likely lower.

Genome-wide association studies (GWAS) have discovered more than 1,500 common variants associated with a variety of cancer types(13). However, the statistical power of GWAS may be limited by the modest effect sizes of common variants and by inadequate sample sizes(14, 15).

To date, three independent GWAS have been conducted to identify SNPs that contribute to EC risk. One GWAS found a significant association between rs4430796, in 17q12 near *HNF1B*, and EC risk(16). Fine-mapping of this region identified likely variants underlying this association in *HNF1B* intron 1(17). Analysis including a more comprehensive validation phase of this GWAS has since identified an additional 6 loci associated with EC risk at genome-wide levels of significance ((18), Cheng et al submitted). However, no other novel genome-wide significant loci associated with EC risk were identified by the two other published GWAS(14, 15).

Meta-analysis methods synthesize summary data from multiple independent studies, increasing power and reducing false-positive findings(19). We thus conducted a discovery meta-analysis of four GWAS datasets of women of European ancestry for a total of 4,907 cases and 11,945 controls, comprising the largest discovery data set for EC yet.

Results

Meta-analysis of GWAS Results for Risk of Endometrial Cancer.

Meta-analysis of GWAS results from the Australian National Endometrial Cancer Study (ANECs), the US Epidemiology of Endometrial Cancer Consortium (E2C2), the UK National Study of Endometrial Cancer Genetics (NSECG), and the UK Studies of Epidemiology and Risk factors in Cancer Heredity (SEARCH) in 4,907 cases and 11,945 controls of European ancestry examined 9,486,271 SNPs for association with risk of EC. No evidence of genomic inflation was observed in the meta-analysis ($\lambda_{GC} = 1.013$, Figure S1). After implementing quality control, including removal of SNPs with p-values for heterogeneity <0.05 from further consideration, a

total of 137 SNPs clustered in four chromosomal regions reached genome-wide significance at $p < 5 \times 10^{-8}$ (Figure 1, Table S1).

This meta-analysis of four independent EC GWAS datasets identified four loci with genome-wide levels of significance (Table 1). Three loci have been discovered previously by analyses that included the ANECS, SEARCH, and NSECG GWAS datasets((16, 18), Cheng et al submitted): 17q12 near *HNF1B*, 13q22.1 near *KLF5* and 6q22.31 intronic to *LOC643623*. The direction of effect for all three previously identified loci in the E2C2 GWAS alone was consistent with that observed in the original studies (Figure 2). In the E2C2 GWAS alone, p-values for the most significant SNPs in 13q22.1 (rs9600103, E2C2 $P = 1.74 \times 10^{-5}$) and 6q22.31 (rs2797160, E2C2 $P = 1.18 \times 10^{-6}$) exceeded the confirmation threshold of $P = 0.017$ based on a Bonferroni correction for three tests, representing an independent validation of these two previously reported EC GWAS hits.

The fourth locus at 6p22.3 is a novel risk region for EC, represented by rs1740828 (OR = 1.20, $P = 2.29 \times 10^{-8}$) (Table 1). This locus at 6p22.3 falls in an intergenic region between *SOX4* and *CASC15* (Figure 3). *SOX4* encodes a transcription factor involved in the regulation of several aspects of development(20). *CASC15* is a long intergenic noncoding RNA that has been identified as a neuroblastoma susceptibility locus(21, 22).

Conditional and joint analyses of these four regions did not identify any secondary association signals, indicating no additional independently associated SNPs after conditioning on the region's lead SNP.

Functional Annotation

Though the most significant risk-associated SNP at 6p22.3 is located in an intergenic region, it may be a marker for an underlying variant that may modulate or regulate nearby or distant genes. To pursue a putative functional role that variants at 6p22.3 may have in risk of EC, we annotated SNPs in LD ($r^2 > 0.2$ in EU 1000 Genomes) with the region's lead SNP, rs1740828, with publicly available data on relevant regulatory elements located near the susceptibility region. Candidate causal SNPs with log likelihood ratios of $>1:100$ compared with rs1740828 (r^2 between 0.2 and 0.5) overlap with putative enhancers defined by Hnisz(23) and PreSTIGE(24) for *SOX4*, *CASC15*, and *CDKALI* (Figure 3). *CDKALI* encodes for a methylthiotransferase and is a known type 2 diabetes susceptibility gene(25–27). ENCODE data also show these SNPs mapped to regions displaying evidence of enhancer-specific histone modification (mono-methylation of H3 lysine 4 (H3K4Me1) and H3 lysine 27 acetylation (H3K27Ac)), DNaseI hypersensitivity sites representative of open chromatin, and regions bound by transcription factors.

eQTL Analysis

In order to identify potential biological mechanisms underlying the association between the 6p22.3 locus and EC risk, we performed eQTL analysis using publicly available mRNA expression, somatic copy-number variation and methylation data of 408 EC tumor tissues and 30 adjacent normal endometrial tissues from TCGA. Expression levels of *SOX4*, *CASC15*, and *CDKALI*, identified as potential target genes by cross reference to Hnisz and PreSTIGE data, were assessed in the analysis. After adjusting for multiple comparisons, no significant

associations were seen between SNPs in the risk loci region (Chr6:21549085-21749085) and expression levels of any of these three genes (Table S2a, S2b). Associations between SNPs and gene expression were also explored using uterine-specific Genotype-Tissue Expression (GTEx) project data (www.gtexportal.org). Similarly, no significant associations were observed between risk SNPs and expression levels of the target genes (data not shown).

Discussion

Our EC GWAS meta-analysis, the largest discovery data set for EC yet, identified one new susceptibility locus at 6p22.3 and confirmed previously discovered loci at 6q22.31 and 13q22.1. The new locus at 6p22.3, represented by rs1740828, lies between two genes, *SOX4* and *CASC15*.

Assuming a log-additive association with risk, these four loci are estimated to account for ~4.4% of the familial relative risk of EC in women of European ancestry. This fraction is less than what has been discovered in studies with comparable sample sizes for cancers such as colorectal(28) and pancreatic cancer(29). It is likely that additional common variants with more modest effect sizes, as well as copy-number variants, rare variants, and indels not tagged by current genotyping arrays, have yet to be discovered, and will contribute to explaining familial endometrial cancer risk. Our meta-analysis was $\geq 80\%$ powered to detect an association of the magnitude of rs1740828 for SNPs with $MAF > 0.21$, suggesting that even larger sample sizes would be needed to detect modest effects from lower frequency variants.

Functional annotation suggests that SNPs in LD with rs1740828 overlap putative enhancers for *SOX4*, *CASC15* and *CDKALI*. Our eQTL results do not support regulation of these particular

genes by SNPs falling within 100kb of the lead SNP of the 6p22.3 locus that we identified. However, this may be due to the lack of substantial eQTL data available for adjacent normal endometrial tissue or because eQTLs are context-dependent and may only be expressed in certain stages of cancer development or only when under particular stimuli. Comprehensive studies involving fine-mapping as well as functional analysis are needed to identify biological processes underlying our observed GWAS-identified risk signal at 6p22.3.

Of note, existing data suggest that the 6p22.3 region is relevant to cancer susceptibility in general, summarized in a review of genetic and biological studies reporting on the associations of *CASC15*, *CDKALI*, and *SOX4* SNPs and gene expression with cancer risk and prognosis (Table S3). In larger studies(21, 30), SNPs in/near *CASC15* have been associated with neuroblastoma ($P < 10^{-9}$), and increased *CASC15* expression has been implicated in melanoma progression(31). A GWAS of bladder cancer provided suggestive evidence of increased risk in the *CDKALI* region (lead SNP rs4510656, $p = 6.98 \times 10^{-7}$)(32). Given the established associations between EC risk and body-mass index (BMI)(33) and diabetes(34), it is notable that the *CDKALI* region is also associated with diabetes risk and BMI(35). Furthermore, although the *SOX4* region has yet to be associated with cancer risk by GWAS to date, *SOX4* overexpression has been implicated in malignancy and poor prognosis in a variety of cancers, including chondrosarcoma(36) and cancers of the lung(37–39), prostate(40, 41), breast(42, 43), and endometrium(44). A meta-analysis of 10 studies with >1000 cancer patients reported that *SOX4* tumor overexpression is modestly correlated with poor overall survival(45).

In summary, our study has identified a new endometrial cancer risk locus at 6p22.3. Given previously published associations of SNPs in this region at either genome-wide or notable levels of significance ($P < 10^{-6}$) with other cancer types, our results also highlight this region as a potential general cancer susceptibility locus. Extensive fine-mapping and functional studies are required to identify the biological basis of cancer risk at this region.

Materials and Methods

Datasets. Four large genotyping studies, the Australian National Endometrial Cancer Study (ANECs), the US Epidemiology of Endometrial Cancer Consortium (E2C2), the UK National Study of Endometrial Cancer Genetics (NSECg), and the UK Studies of Epidemiology and Risk factors in Cancer Heredity (SEARCH), contributed a total of 16,852 women (4,907 cases, 11,945 controls) of European ancestry with confirmed EC diagnosis to the meta-analysis. We did not restrict by EC subtype in this analysis. Details of the participating studies and genotyping platforms used are provided in Table S4.

Briefly, 606 cases from ANECs(16) were compared to 3083 Australian controls from the Brisbane Adolescent Twin Study (QIMR Controls)(46, 47) ($n=1846$) and the Hunter Community Study(48) ($n=1237$). E2C2(49) is an NCI-supported international consortium of more than 45 studies created to investigate the etiology of EC. As previously described(15), four US-based cohort studies, 2 US-based case-control studies, and 1 Poland-based case-control study from the consortium contributed 2695 cases and 2777 controls to this analysis. Cases from NSECg(17) ($n=925$) were compared with 895 controls from the UK1/CORGI colorectal cancer study(50). Cases from SEARCH(16) ($n=681$) were compared to 5190 controls from the Wellcome Trust Case-Control Consortium(51).

Genotyping and Imputation. Within each study, genotyping was performed on specific Illumina platforms, as detailed in Table S4. Quality control methods agreed upon by all studies were implemented. Briefly, this involved exclusion of SNPs with call rates <95%, MAFs <1%, Hardy-Weinberg violation of at least $P < 10^{-12}$ for cases and $P < 10^{-7}$ for controls, or individuals who are genetically male, first-degree cryptic relations or duplicates, or with call rates <95%. All genotypes were imputed to the positive strand of the 1000 Genomes Project v3, phase 1 dataset with either Minimac(52) or IMPUTE2(53).

Statistical Analysis. Primary association analyses of single variants with EC risk were performed separately in each study using logistic regression implemented with SNPTEST v2(54) or ProbABEL(55), adjusting for relevant principal components and variables specific to the study. Summary statistics reported from each study were combined using fixed-effect meta-analysis with inverse variance weights in METAL(56). The p-value threshold to reach genome-wide significance in the meta-analysis was set to 5×10^{-8} . Heterogeneity across studies was assessed using Cochran's Q statistic. Conditional and joint analysis of summary-level associations, performed with GCTA(57), was used to determine the presence of secondary associations within chromosomal regions of size less than 500kb. The power to detect an association of equal magnitude to rs1740828, the most significant result in the meta-analysis, was calculated using QUANTO 1.2(58).

Functional Annotation. SNPs in linkage disequilibrium (LD), defined as $r^2 > 0.2$ in the European 1000 Genomes data, with the most significant SNP (rs1740828) were annotated using

HaploregV2(59) and data from ENCODE(60) including promoter and enhancer histone marks, DNaseI hypersensitivity sites, bound proteins and altered motifs. Additionally, enhancer-gene pairs reported by Hnisz(23) and PreSTIGE(24) were cross-referenced against risk loci to identify likely enhancers overlapping SNPs in LD ($r^2 > 0.2$) with rs1740828.

eQTL Analysis. To examine tissue-specific eQTLs, data from EC patients were accessed from The Cancer Genome Atlas (TCGA)(61). Normalised RNA-Seq, copy-number and methylation data were downloaded through the Cancer Browser (<https://genome-cancer.ucsc.edu>). Germline SNP genotypes (Affymetrix 6.0 arrays) were downloaded through the TCGA controlled access portal (<https://tcga-data.nci.nih.gov/tcga/>) and QC performed. SNPs were excluded for call rate $< 95\%$, MAF $< 1\%$ or deviations from HWE significant at 10^{-4} . Samples were excluded for low overall call rate ($< 95\%$), heterozygosity > 3 standard deviations from the mean and non-female sex status (X-chromosome homozygosity rate > 0.2). For duplicate samples or samples identified as close relatives by Identity-By-State probabilities > 0.85 , the sample with the lower call rate was excluded. To assess untyped SNPs, we imputed genotypes present in the 1000 Genomes dataset Phase 3v5 in the risk locus region ($\pm 100\text{kb}$ of the lead SNP, rs1740828) for SNPs that were not genotyped by the Affymetrix 6.0 platform. Haplotypes were phased using the MaCH program(62) before running minimac for genotype imputation(53, 52), using the recommended parameters (20 iterations of the Markov sampler and 200 states). SNPs imputed with an $R^2 > 0.3$ and MAF > 0.01 were included in the eQTL analysis. Associations were assessed after Bonferroni correction for the total number of tests performed (number of SNP investigated = 2088, number of genes assessed = 3 and number of sample sets = 2), with a P-value $< 4.0 \times 10^{-6}$ required for statistical significance.

Thirty cancer tissue samples had adjacent normal endometrial tissues available with complete genotype and RNA-Seq data. Since gene expression in tumours is affected by acquired somatic alterations, we accounted for somatic copy-number variation and methylation in eQTL analysis of EC tissue. In total, 366 TCGA patients had complete genotype, RNA-Seq, copy-number and methylation data available for the analysis. Expression of *SOX4*, *CASC15* and *CDKAL1* (which were identified as target genes by cross-reference to Hnisz and PreSTIGE data) were adjusted for sequencing platform (Illumina GA or Illumina HiSeq) in adjacent normal EC, and adjusted for sequencing platform, copy-number variation and methylation in EC tissue. The associations between genotype and residual gene expression were evaluated using linear regression models by the mach2qtl program(62, 63).

Contribution to familial risk.

Contribution of known SNPs to familial relative risk under a multiplicative model was computed using the formula detailed in Eeles et al. 2013(64). We assumed the observed familial risk to first-degree relatives of EC cases was 2-fold, the loci had a log-additive association with risk, and the loci were not in LD.

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Conflict of Interest Statement

No conflicts of interest to declare.

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Legends to Figures

Figure 1. Manhattan plot of meta-analysis results for endometrial cancer in four cohorts.

Association results between imputed and genotyped SNPs and risk of EC in women of European ancestry are depicted. Dashed line indicates the log of the threshold for genome-wide significance ($P < 5.0 \times 10^{-8}$).

Figure 2. Forest plots of the odds ratios for the association between rs2797160, rs1740828, rs9600103, rs11651052 and endometrial cancer.

Figure 3. Regional association plot of 6p22.3 with annotation of genomic features, likely enhancers, and target genes. Association results for all SNPs in the 6p22.3 locus with EC risk from the meta-analysis are shown in the first panel. SNPs are plotted as the negative log of the P-value against relative position across the locus (base position [hg19] displayed across the top). The lead SNP, rs1740828, is shown as a red filled diamond. LD with surrounding SNPs are indicated by color (SNPs $0.5 \leq r^2 < 0.8$ are orange, $0.2 \leq r^2 < 0.5$ are yellow, and $r^2 < 0.2$ are unfilled). There were no SNPs with an $r^2 \geq 0.8$ to the lead SNP. The second panel displays genes as identified by RefSeq. Likely enhancers predicted by Hnisz et al(23) and PreSTIGE(24) that overlap SNPs in LD ($r^2 > 0.2$) with the lead SNP are depicted as colored bars, where the color matches the schematic of its predicted target gene (the black bar is predicted to target *CDKAL1*, not shown in this figure). Histone modification associated with promoters (H3K4Me1) and enhancers (H3K4Me1 and H3K27Ac) from seven ENCODE Project cell types and DNaseI

hypersensitivity sites (DHS) and transcription factor (TF) binding sites identified in 125 and 91 ENCODE Project cell types, respectively, are also displayed.

Tables

Table 1. Association results for loci reaching genome-wide significance with no evidence of significant study heterogeneity								
Lead SNP	Chromosome	Position (hg19)	Nearby Gene	Description	Alleles	OR	P	RAF*
rs2797160	6q22.31	126010116	<i>LOC643623</i> **	intronic	A/G	1.21	4.04E-13	0.578
rs9600103	13q22.1	73811879	<i>KLF5</i>	intergenic	A/T	1.23	3.76E-12	0.722
rs1740828	6p22.3	21649085	<i>SOX4</i>	intergenic	G/A	1.20	2.29E-08	0.516
rs11651052	17q12	36102381	<i>HNF1B</i>	intronic	G/A	1.16	1.18E-08	0.535

* Risk Allele Frequency

** uncharacterized gene region

Abbreviations

EC – endometrial carcinoma

GWAS – genome-wide association study

BMI – body-mass index

SNP – single nucleotide polymorphism

eQTL – expression quantitative trait loci

LD – linkage disequilibrium

Rebuttal to “Comments to the Author”

We would like to thank Reviewer 1 and Reviewer 2 for their comments and insights. The following is our response to Reviewer 2:

“I felt the introduction and discussion lacked some information on what is known about the disease (biology) and its subtypes. A few sentences on known risk-factors and a statement indicating how little is known about its aetiology would suffice.”

We acknowledge that we did not extensively discuss environmental risk factors and etiology in our introduction and discussion. We have added a few sentences to this end to the Introduction section, paragraph 1.

Addition:

“A number of modifiable risk factors have been established, including obesity, estrogen-only post-menopausal hormone therapy, and reproductive history. However, not much is known about its genetic etiology.”

“Likely, the four datasets did not include information on disease subtype (clear cell, endometrioid, serous, mucous), but even if so this should be stated.”

We have corrected this oversight in the Methods section, subheading “Datasets”, paragraph 1.

Addition:

“We did not restrict by EC subtype in this analysis.”

“The association analyses presented are statistically sound, although I was a little surprised not to see a forest plot showing the effect sizes and their directions for each of the datasets and the meta-analysis depicted graphically for the top SNPs in the four loci. This would aid the reader.”

We have added forest plots of all four genome-wide significant loci as Figure 2. The functional annotation plot is now Figure 3.

“Also, the presentation of Supplementary Tables 1 and 2 could be improved upon. Supplementary Table 1 has all association results ordered on p-value of significance, irrespective of the locus. It would be helpful to include subheadings for each of the loci, and highlight the top associated SNP. Similarly, Supplementary Tables 2a and 2b are long lists of eQTL results ordered on SNP position, which are not easy to interpret.”

We have made changes to the supplementary tables according to reviewer suggestion.

“The methods section for eQTL analyses does not include details on how significance of the results was evaluated (multiple testing correction allowing for correlation between SNPs and between expression traits).”

We have added a sentence on multiple testing correction in the Methods section, subheading “eQTL Analysis”.

Addition:

“Associations were assessed after Bonferroni correction for the total number of tests performed (number of SNP investigated = 2088, number of genes assessed= 3 and number of sample sets = 2), with a P-value $< 4.0 \times 10^{-6}$ required for statistical significance.”

The authors were clearly limited by the lack of publicly available endometrial genomic annotation data, which is a point worth making.

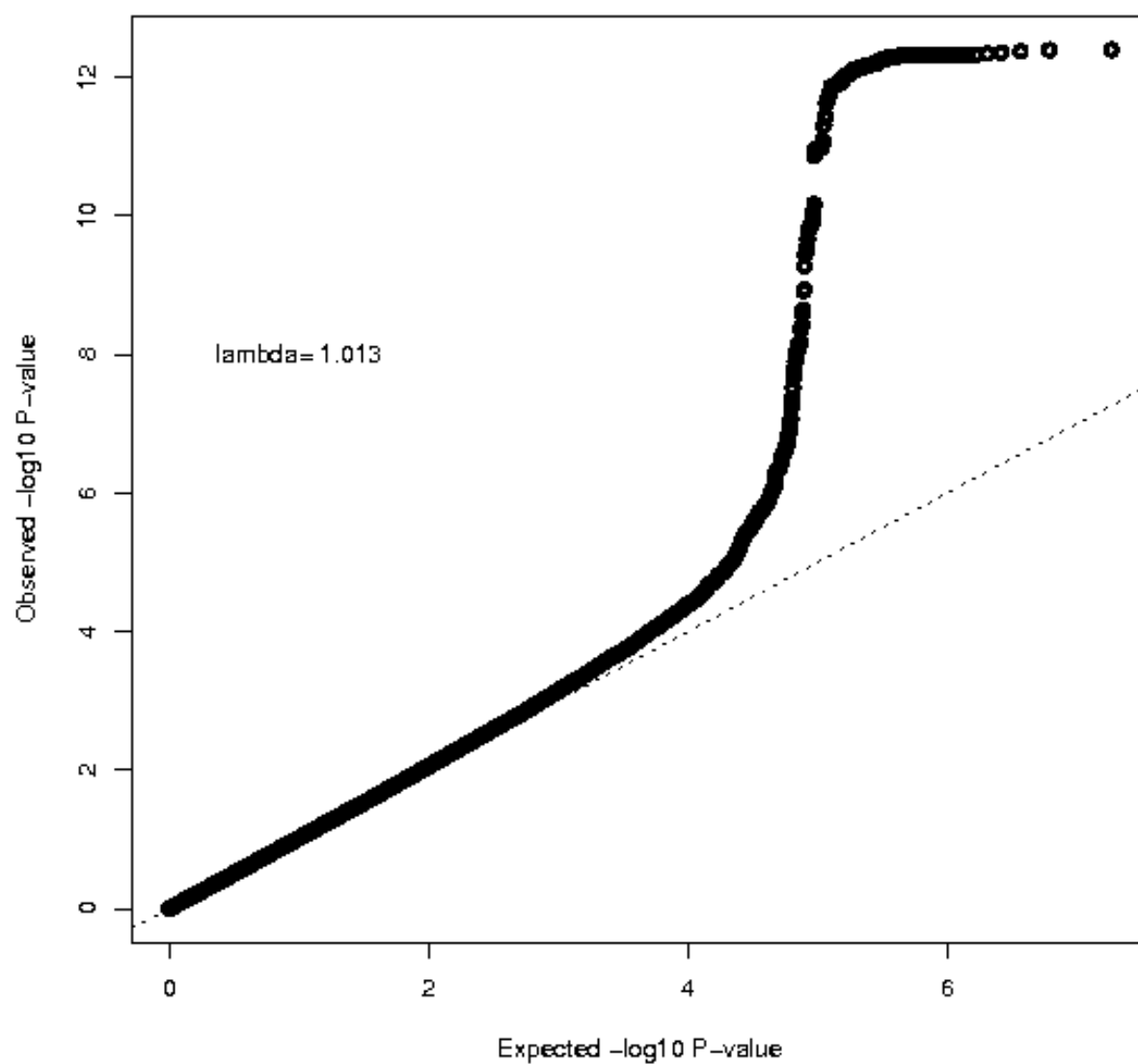
We agree that we were limited by the lack of publically available genomic annotation data. We address the lack of eQTL data for endometrial tissue and the need for additional functional analysis in the Discussion section, paragraph 3.

Original statement:

“However, this may be due to the lack of substantial eQTL data available for adjacent normal endometrial tissue or because eQTLs are context-dependent and may only be expressed in certain stages of cancer development or only when under particular stimuli. Comprehensive studies involving fine-mapping as well as functional analysis are needed to identify biological processes underlying our observed GWAS-identified risk signal at 6p22.3.”

Supplementary Information
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Supplementary Figure 1. Quantile-quantile plot of association results from meta-analysis of imputed and genotyped SNPs and risk of endometrial cancer.

Supplementary Table 1. Meta-analysis results for SNPs reaching genome-wide significance.

Marker Name	Chr.	Position	A1	A2	Beta Estimate	Standard Error	P-value	Direction of Effect in Each Contributing Study	Heterozygosity Chi-Square Statistic	Heterozygosity DF	Heterozygosity P-Value
6q22.31											
rs2797160	6	126010116	a	g	0.1942	0.0268	4.04E-13	++++	0.174	3	0.9817
rs1777226	6	126017691	a	c	-0.1939	0.0267	4.08E-13	----	0.158	3	0.984
rs1739354	6	126017808	c	g	-0.1937	0.0267	4.28E-13	----	0.154	3	0.9847
rs6910933	6	126017155	c	g	0.1935	0.0267	4.43E-13	++++	0.178	3	0.9811
rs6934435	6	126017481	t	g	0.1934	0.0267	4.62E-13	++++	0.155	3	0.9844
rs1739362	6	126020703	a	t	0.1934	0.0267	4.74E-13	++++	0.142	3	0.9863
rs1777225	6	126018270	t	c	0.1934	0.0267	4.74E-13	++++	0.168	3	0.9826
rs12717178	6	126016499	a	g	-0.1932	0.0267	4.79E-13	----	0.186	3	0.9798
rs6933302	6	126016951	t	c	0.1932	0.0267	4.79E-13	++++	0.186	3	0.9798
rs6933471	6	126017029	t	g	0.1932	0.0267	4.79E-13	++++	0.186	3	0.9798
rs1739355	6	126018114	a	g	0.1933	0.0267	4.80E-13	++++	0.148	3	0.9854
rs6927161	6	126015954	t	c	0.1932	0.0267	4.82E-13	++++	0.188	3	0.9795
rs6904992	6	126016003	a	g	-0.1932	0.0267	4.82E-13	----	0.188	3	0.9795
rs1739373	6	126011509	a	g	0.1932	0.0267	4.84E-13	++++	0.16	3	0.9837
rs1739349	6	126014984	c	g	-0.1931	0.0267	4.87E-13	----	0.188	3	0.9795
rs1578793	6	126015057	a	g	0.1931	0.0267	4.87E-13	++++	0.188	3	0.9795
rs1578794	6	126015469	t	c	0.1931	0.0267	4.87E-13	++++	0.188	3	0.9795
rs1739368	6	126011079	t	c	-0.193	0.0267	4.93E-13	----	0.185	3	0.98
rs1739347	6	126014157	t	c	-0.1931	0.0267	4.93E-13	----	0.187	3	0.9797
rs1739348	6	126014573	t	c	0.1931	0.0267	4.93E-13	++++	0.188	3	0.9795

rs1739371	6	126011291	a	g	-0.193	0.0267	4.95E-13	----	0.183	3	0.9802
rs1739378	6	126012262	a	c	-0.1931	0.0267	4.95E-13	----	0.189	3	0.9793
rs2797162	6	126011381	t	g	-0.193	0.0267	5.06E-13	----	0.189	3	0.9793
rs1739372	6	126011325	a	g	-0.193	0.0267	5.08E-13	----	0.188	3	0.9796
rs984041	6	126021328	a	t	0.193	0.0267	5.09E-13	++++	0.142	3	0.9864
rs1739363	6	126020980	a	g	-0.193	0.0267	5.22E-13	----	0.139	3	0.9868
rs926853	6	126021435	a	t	0.1929	0.0267	5.27E-13	++++	0.144	3	0.9861
rs1777222	6	126021030	t	c	-0.1928	0.0267	5.47E-13	----	0.142	3	0.9863
rs2797154	6	126005197	a	g	-0.1926	0.0267	5.48E-13	----	0.108	3	0.9908
rs984040	6	126021277	t	c	0.1927	0.0267	5.67E-13	++++	0.142	3	0.9864
rs2747717	6	126008435	a	g	0.1923	0.0267	5.78E-13	++++	0.185	3	0.9799
rs2797159	6	126009557	a	g	-0.1923	0.0267	5.86E-13	----	0.168	3	0.9825
rs2747721	6	126009527	a	g	0.1921	0.0267	6.41E-13	++++	0.152	3	0.985
rs2747722	6	126009629	a	g	0.1918	0.0267	6.50E-13	++++	0.161	3	0.9836
rs2797158	6	126009398	a	g	-0.1918	0.0267	6.57E-13	----	0.162	3	0.9835
rs2747720	6	126009458	a	g	0.1918	0.0267	6.57E-13	++++	0.162	3	0.9835
rs2747718	6	126009109	a	c	-0.1917	0.0267	6.69E-13	----	0.157	3	0.9842
rs1777224	6	126019527	t	c	0.1921	0.0267	6.80E-13	++++	0.092	3	0.9928
rs2747719	6	126009214	t	c	-0.1916	0.0267	6.81E-13	----	0.162	3	0.9835
rs1418948	6	126007018	t	c	-0.1913	0.0266	6.90E-13	----	0.172	3	0.982
rs13328298	6	126016580	a	g	-0.1924	0.0268	7.20E-13	----	0.21	3	0.976
rs78602343	6	126019768	t	c	0.192	0.0268	7.34E-13	++++	0.154	3	0.9846
rs983543	6	126005767	a	g	0.191	0.0266	7.42E-13	++++	0.173	3	0.9818
rs76407388	6	126004194	a	g	-0.1974	0.0275	7.49E-13	----	0.831	3	0.8419
rs1739352	6	126005310	t	c	-0.191	0.0266	7.50E-13	----	0.174	3	0.9817
rs2747714	6	126007620	a	g	0.191	0.0266	7.58E-13	++++	0.176	3	0.9814
rs4897153	6	126003403	a	g	-0.1908	0.0266	7.84E-13	----	0.176	3	0.9813
rs6910786	6	126017141	a	t	0.1916	0.0267	7.85E-13	++++	0.179	3	0.981

rs1777194	6	126004883	a	g	0.1908	0.0266	7.87E-13	++++	0.175	3	0.9815
rs4897152	6	126002400	a	g	-0.1908	0.0266	7.92E-13	----	0.177	3	0.9812
rs1935979	6	126002774	a	g	-0.1906	0.0266	8.34E-13	----	0.177	3	0.9811
rs2747724	6	126004935	a	g	0.1905	0.0266	8.48E-13	++++	0.175	3	0.9816
rs1739357	6	126019655	t	g	0.191	0.0267	9.03E-13	++++	0.095	3	0.9925
rs9321050	6	126001568	a	g	-0.1902	0.0266	9.25E-13	----	0.148	3	0.9856
rs1739367	6	126004720	t	g	0.1901	0.0266	9.61E-13	++++	0.18	3	0.9808
rs1777197	6	126007401	a	g	-0.1909	0.0268	9.73E-13	----	0.107	3	0.991
rs1954360	6	126001064	a	g	-0.19	0.0266	9.81E-13	----	0.148	3	0.9855
rs1954361	6	126001423	c	g	-0.19	0.0266	9.82E-13	----	0.148	3	0.9855
rs9491471	6	125991715	t	c	0.1898	0.0266	1.02E-12	++++	0.168	3	0.9825
rs1935772	6	125994708	t	c	-0.1893	0.0266	1.18E-12	----	0.145	3	0.986
rs6904069	6	125995134	a	g	0.1892	0.0266	1.21E-12	++++	0.139	3	0.9868
rs4897151	6	125993202	t	g	-0.1893	0.0266	1.21E-12	----	0.162	3	0.9834
rs1832938	6	125988964	c	g	0.1895	0.0267	1.21E-12	++++	0.185	3	0.9799
rs2211419	6	125995533	a	g	-0.1892	0.0266	1.22E-12	----	0.136	3	0.9872
rs6940748	6	125994080	t	c	0.189	0.0266	1.29E-12	++++	0.129	3	0.9881
rs6569435	6	125998186	t	c	-0.189	0.0266	1.29E-12	----	0.136	3	0.9873
rs1418642	6	125999768	a	g	0.189	0.0266	1.30E-12	++++	0.135	3	0.9874
rs2211420	6	125995549	t	c	-0.189	0.0266	1.31E-12	----	0.139	3	0.9868
rs8180614	6	126000599	c	g	0.1888	0.0266	1.36E-12	++++	0.136	3	0.9872
rs1418641	6	125999854	t	c	0.1888	0.0266	1.36E-12	++++	0.137	3	0.9871
rs1418640	6	125999866	a	g	0.1888	0.0266	1.36E-12	++++	0.137	3	0.9871
rs4895798	6	126000162	a	g	-0.1888	0.0266	1.36E-12	----	0.137	3	0.9871
rs1832980	6	125997444	t	g	-0.1887	0.0266	1.39E-12	----	0.137	3	0.987
rs1935774	6	125996661	t	c	0.1877	0.0266	1.70E-12	++++	0.079	3	0.9942
rs1418639	6	125999940	t	c	0.1883	0.0267	1.78E-12	++++	0.074	3	0.9947
rs1935773	6	125996475	a	g	-0.1875	0.0266	1.95E-12	----	0.098	3	0.9921

rs28629380	6	126004197	a	g	-0.1881	0.0268	2.10E-12	----	0.203	3	0.9771
rs1832979	6	125997436	a	g	-0.1866	0.0266	2.28E-12	----	0.075	3	0.9946
rs9401843	6	126004124	t	c	-0.1877	0.0268	2.33E-12	----	0.094	3	0.9925
rs1739364	6	126022383	a	g	-0.183	0.0268	8.21E-12	----	0.15	3	0.9852
rs12527010	6	125991507	a	g	0.18	0.0264	9.91E-12	++++	0.081	3	0.9941
rs2747715	6	126007719	a	t	0.1817	0.0267	1.05E-11	++++	0.126	3	0.9885
rs1630556	6	126013155	a	g	0.1822	0.0268	1.05E-11	++++	0.151	3	0.9851
rs1739380	6	126012858	t	c	0.1821	0.0268	1.06E-11	++++	0.151	3	0.9851
rs1777183	6	126011995	a	c	0.1821	0.0268	1.07E-11	++++	0.151	3	0.9851
rs1739375	6	126012013	t	c	0.1821	0.0268	1.07E-11	++++	0.151	3	0.9851
rs1739376	6	126012084	c	g	0.1821	0.0268	1.07E-11	++++	0.151	3	0.9851
rs1739377	6	126012236	t	c	0.1821	0.0268	1.07E-11	++++	0.151	3	0.9851
rs1739379	6	126012593	t	c	0.1821	0.0268	1.08E-11	++++	0.15	3	0.9852
rs1739374	6	126011825	t	c	-0.1821	0.0268	1.08E-11	----	0.151	3	0.9851
rs2747725	6	126012397	t	g	0.1821	0.0268	1.08E-11	++++	0.152	3	0.985
rs1777182	6	126013614	a	t	-0.182	0.0268	1.09E-11	----	0.148	3	0.9856
rs1777195	6	126006861	a	c	0.1806	0.0267	1.37E-11	++++	0.126	3	0.9885
rs1612249	6	126014916	a	c	-0.1948	0.0299	6.85E-11	--?-	0.133	2	0.9358
rs78229684	6	126007996	t	c	-0.1916	0.0295	8.47E-11	--?-	0.171	2	0.9181
rs1612274	6	126014907	a	c	-0.1759	0.0273	1.09E-10	----	0.976	3	0.8071
rs1739366	6	126007409	t	c	0.191	0.0297	1.18E-10	++?+	0.107	2	0.948
rs1343120	6	125992810	a	g	-0.1897	0.0295	1.32E-10	--?-	0.165	2	0.921
rs1739370	6	126011231	t	c	-0.1739	0.0271	1.32E-10	----	0.892	3	0.8274
rs1418951	6	125996185	a	g	-0.1894	0.0295	1.38E-10	--?-	0.136	2	0.9341
rs1739358	6	126019736	a	g	-0.1909	0.0298	1.49E-10	--?-	0.121	2	0.9414
rs77678056	6	126019738	a	g	0.1908	0.0298	1.52E-10	++?+	0.121	2	0.9413
rs926854	6	126021780	a	g	0.1907	0.0298	1.56E-10	++?+	0.315	2	0.8541
rs926855	6	126021782	a	g	0.1905	0.0298	1.63E-10	++?+	0.316	2	0.854

rs80303782	6	126004193	t	c	0.1941	0.0306	2.24E-10	++?+	0.522	2	0.7704
rs1418637	6	125992553	a	g	-0.1702	0.027	2.84E-10	----	1.004	3	0.8003
rs2211418	6	125995503	a	g	0.1861	0.0296	3.11E-10	++?+	0.101	2	0.9505
rs2326292	6	125999674	a	g	0.1696	0.027	3.26E-10	++++	0.895	3	0.8265
rs2797161	6	126010789	a	g	0.1927	0.0307	3.60E-10	++?+	0.122	2	0.9407
rs2747723	6	126010790	t	c	-0.1926	0.0307	3.62E-10	--?-	0.119	2	0.9423
rs1832937	6	125985934	a	g	0.1654	0.0267	5.41E-10	++++	0.029	3	0.9987
rs1777198	6	126007416	t	c	-0.1809	0.0298	1.22E-09	--?-	0.067	2	0.967
rs1777220	6	126022602	t	g	-0.1591	0.027	3.85E-09	----	1.022	3	0.7959
rs2226158	6	125995467	a	g	0.1733	0.0295	4.06E-09	++?+	0.081	2	0.9604
rs9491503	6	126031682	a	g	-0.1581	0.0273	6.60E-09	----	0.336	3	0.9531
rs1268093	6	126029235	a	g	-0.1575	0.0272	6.98E-09	----	0.384	3	0.9436
rs1268066	6	126035041	t	c	-0.1579	0.0273	7.11E-09	----	0.369	3	0.9466
rs1343121	6	126036184	t	c	-0.1579	0.0273	7.17E-09	----	0.366	3	0.9473
rs1269176	6	126029682	a	t	-0.1577	0.0273	7.17E-09	----	0.379	3	0.9446
rs6939969	6	126034563	t	c	-0.1574	0.0272	7.50E-09	----	0.359	3	0.9485
rs1268092	6	126029043	t	c	-0.1569	0.0272	7.90E-09	----	0.326	3	0.9551
rs6569437	6	126034540	t	g	0.1566	0.0272	8.78E-09	++++	0.327	3	0.9548
rs1268067	6	126036621	t	c	0.1566	0.0273	9.40E-09	++++	0.255	3	0.9682
rs6939865	6	126027318	a	c	0.169	0.0309	4.31E-08	++?+	0.025	2	0.9874

6p22.3

rs1740828	6	21649085	a	g	-0.1829	0.0327	2.29E-08	----	1.094	3	0.7785
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13q22.1

rs9600103	13	73811879	a	t	0.2074	0.0299	3.76E-12	++++	0.39	3	0.9424
rs7981863	13	73812141	t	c	-0.2072	0.0299	3.93E-12	----	0.394	3	0.9416
rs11841589	13	73814891	t	g	-0.2066	0.0299	5.04E-12	----	0.521	3	0.9144
rs9592895	13	73813982	t	c	0.1801	0.0281	1.53E-10	++++	0.375	3	0.9453
rs7989799	13	73813436	a	t	-0.1981	0.0332	2.49E-09	--?-	0.132	2	0.9363

rs7988505	13	73813435	c	g	0.1979	0.0332	2.60E-09	++?+	0.129	2	0.9375
17q12											
rs11651052	17	36102381	a	g	-0.1523	0.0267	1.18E-08	----	4.88	3	0.1808
rs4430796	17	36098040	a	g	0.1511	0.0265	1.23E-08	++++	5.805	3	0.1215
rs8064454	17	36101586	a	c	-0.1507	0.0267	1.60E-08	----	4.488	3	0.2133
rs11263763	17	36103565	a	g	0.1533	0.0271	1.62E-08	++++	4.614	3	0.2023
rs11651755	17	36099840	t	c	0.1487	0.0266	2.20E-08	++++	5.125	3	0.1629
rs11263761	17	36097775	a	g	0.1505	0.0272	3.05E-08	++++	5.081	3	0.1659

Abbreviations-- Chr.: Chromosome, A1: Allele 1 (minor allele), A2: Allele 2

Top SNP at each locus highlighted in grey

**Supplementary Table 2a. Results from eQTL analysis of 6p22 region:
endometrial tumour tissue.**

TRAIT	MARKER	BP	ALLELES	FREQ1	RSQR	EFFECT2	STDERR	CHISQ	PVALUE
SNP association with CASC15 sorted by p-value									
CASC15	rs546083928	21596246	R,I	0.9877	0.6818	-1.251	0.508	6.0715	0.01374
CASC15	rs543173991	21629474	T,A	0.9884	0.7664	-1.118	0.468	5.7084	0.01688
CASC15	rs190176895	21629550	C,A	0.9877	0.7487	-1.031	0.462	4.9942	0.02543
CASC15	rs111411936	21626246	G,A	0.9877	0.7672	-1.021	0.458	4.9656	0.02586
CASC15	rs7762989	21624153	C,T	0.9883	0.8214	-0.998	0.459	4.719	0.02983
CASC15	rs71657670	21613526	R,D	0.9864	0.77	-0.912	0.44	4.2926	0.03828
CASC15	rs76501983	21631411	G,A	0.9854	0.8228	-0.81	0.396	4.1772	0.04097
CASC15	rs78923341	21612472	A,C	0.9872	0.895	-0.797	0.411	3.7544	0.05267
CASC15	rs111228858	21612309	G,A	0.9872	0.8945	-0.797	0.411	3.7507	0.05279
CASC15	rs79169915	21607457	G,A	0.9882	0.848	-0.871	0.45	3.7445	0.05298
CASC15	rs112650104	21611568	C,G	0.9871	0.889	-0.791	0.412	3.6915	0.05469
CASC15	rs111412021	21606278	T,C	0.9882	0.8163	-0.889	0.466	3.6363	0.05653
CASC15	rs1744875	21648534	C,A	0.4998	0.4732	-0.237	0.126	3.5344	0.06011
CASC15	rs10557323	21615430	R,D	0.9849	0.974	-0.668	0.361	3.4317	0.06396
CASC15	rs77222012	21614945	G,A	0.9849	0.9755	-0.668	0.361	3.4286	0.06408
CASC15	rs75127321	21613946	G,A	0.9849	0.9767	-0.666	0.36	3.4167	0.06454
CASC15	rs6935968	21613156	G,A	0.9849	0.9776	-0.665	0.36	3.4112	0.06475
CASC15	rs112538002	21611751	T,C	0.9848	0.97	-0.659	0.361	3.3284	0.06809
CASC15	rs113842280	21611571	T,G	0.9848	0.967	-0.656	0.361	3.2996	0.0693
CASC15	rs112553613	21616239	A,G	0.9848	0.9676	-0.656	0.361	3.2977	0.06938
CASC15	rs1744866	21631188	C,T	0.9885	0.3807	1.111	0.629	3.1167	0.0775
CASC15	rs78345714	21734098	T,C	0.9849	0.6839	0.611	0.349	3.0665	0.07992
CASC15	rs76944255	21582643	G,A	0.981	0.4687	-0.739	0.422	3.0606	0.08021
CASC15	rs80061387	21579793	T,C	0.9808	0.4585	-0.738	0.425	3.0156	0.08246
CASC15	rs2251647	21677746	C,A	0.9512	0.9786	0.348	0.201	2.9867	0.08395
CASC15	rs7738599	21631790	A,G	0.9365	0.4203	-0.465	0.274	2.8913	0.08906
CASC15	rs150997476	21663402	A,T	0.9893	0.6383	0.914	0.541	2.8547	0.09111
CASC15	rs201453060	21648925	R,I	0.5221	0.4872	-0.209	0.124	2.8291	0.09257
CASC15	rs6941897	21671979	C,A	0.9897	0.6097	-0.795	0.475	2.8003	0.09424
CASC15	rs1740828	21649085	A,G	0.5436	0.4642	0.204	0.123	2.7707	0.096
CASC15	rs1744881	21657548	G,A	0.8047	0.8556	0.192	0.116	2.7454	0.09753
CASC15	rs114750919	21725361	C,G	0.9867	0.8444	0.598	0.364	2.7002	0.1003
CASC15	rs68015368	21645499	I,R	0.8315	0.7435	0.21	0.128	2.6976	0.1005
CASC15	rs72175369	21738076	R,D	0.9214	0.781	0.282	0.173	2.6531	0.1033
CASC15	rs6912946	21659978	A,T	0.8051	0.821	0.189	0.119	2.5524	0.1101
CASC15	rs7451817	21735497	A,C	0.9341	0.9124	0.274	0.175	2.4574	0.117
CASC15	rs6939472	21661019	G,C	0.7866	0.7792	0.181	0.118	2.3815	0.1228
CASC15	rs1744874	21640902	T,C	0.7492	0.9047	0.157	0.103	2.3165	0.128
CASC15	rs138380902	21731187	R,D	0.9079	0.9299	0.22	0.144	2.3167	0.128

CASC15	rs111887738	21616944	T,C	0.9828	0.9369	-0.516	0.339	2.3109	0.1285
CASC15	rs2144867	21689100	C,T	0.9874	0.3281	0.932	0.616	2.2887	0.1303
CASC15	rs113455272	21616778	T,C	0.9824	0.9392	-0.505	0.334	2.2855	0.1306
CASC15	rs1744870	21638485	A,C	0.734	0.9006	0.151	0.102	2.197	0.1383
CASC15	rs1740834	21645207	C,T	0.7742	0.9378	0.152	0.105	2.1206	0.1453
CASC15	rs12528435	21562732	G,A	0.8866	0.355	0.311	0.214	2.1126	0.1461
CASC15	rs1740832	21646725	A,G	0.756	0.938	0.15	0.103	2.107	0.1466
CASC15	rs149699118	21633666	D,R	0.7515	0.8935	0.15	0.103	2.0998	0.1473
CASC15	rs1744873	21638871	C,T	0.7506	0.8981	0.15	0.104	2.0824	0.149
CASC15	rs1744871	21638566	C,T	0.7505	0.8974	0.15	0.104	2.076	0.1496
CASC15	rs1744872	21638599	C,T	0.7505	0.8975	0.15	0.104	2.0735	0.1499
CASC15	rs1744867	21634171	T,C	0.7381	0.8918	0.148	0.103	2.071	0.1501
CASC15	rs1740860	21678055	T,C	0.7991	0.7824	0.165	0.117	1.9721	0.1602
CASC15	rs201389513	21635326	D,R	0.7672	0.8696	0.149	0.107	1.9451	0.1631
CASC15	rs2749683	21635327	T,G	0.767	0.8784	0.147	0.107	1.9058	0.1674
CASC15	rs1744878	21652230	A,C	0.8076	0.9338	0.154	0.112	1.905	0.1675
CASC15	rs142355149	21692662	A,C	0.9804	0.36	-0.712	0.518	1.8897	0.1692
CASC15	rs1740836	21634644	G,A	0.7705	0.8935	0.146	0.106	1.8892	0.1693
CASC15	rs1740825	21653689	T,C	0.7477	0.8767	0.141	0.103	1.8799	0.1703
CASC15	rs1620996	21602552	C,T	0.8959	0.8139	0.201	0.147	1.8751	0.1709
CASC15	rs5874825	21634749	I,R	0.7699	0.8924	0.145	0.106	1.8745	0.171
CASC15	rs7756206	21635314	T,G	0.7423	0.8724	0.142	0.104	1.8663	0.1719
CASC15	rs9358449	21732383	G,A	0.937	0.9915	0.231	0.17	1.8438	0.1745
CASC15	rs1740835	21637725	G,A	0.7724	0.8961	0.144	0.106	1.8179	0.1776
CASC15	rs12206842	21734489	A,T	0.9372	1	0.229	0.17	1.8169	0.1777
CASC15	rs1744890	21678059	A,G	0.8017	0.7924	0.157	0.117	1.8095	0.1786
CASC15	rs6456439	21645743	T,G	0.7125	0.9939	0.128	0.096	1.796	0.1802
CASC15	rs2749682	21641716	A,G	0.6939	0.947	0.127	0.095	1.7901	0.1809
CASC15	rs1615194	21648442	T,C	0.7437	0.9296	0.136	0.102	1.7892	0.181
CASC15	rs9466160	21722771	A,G	0.9736	0.8106	-0.356	0.267	1.7804	0.1821
CASC15	rs35487983	21739331	R,D	0.6885	0.8315	0.127	0.095	1.7766	0.1826
CASC15	rs11433545	21672216	R,I	0.5947	0.6034	-0.149	0.116	1.6424	0.2
CASC15	rs79521243	21581049	T,C	0.9405	0.5684	-0.28	0.219	1.6386	0.2005
CASC15	rs111503674	21585461	T,C	0.941	0.5927	-0.276	0.216	1.6372	0.2007
CASC15	rs76401928	21586715	G,A	0.9419	0.6097	-0.272	0.214	1.6183	0.2033
CASC15	rs1740831	21647589	G,A	0.7131	0.9772	0.121	0.097	1.5764	0.2093
CASC15	rs12183824	21726382	G,A	0.8184	0.3562	-0.216	0.176	1.5105	0.2191
CASC15	rs9295514	21636585	A,G	0.7107	0.9234	0.121	0.099	1.4956	0.2213
CASC15	rs59493338	21646242	T,A	0.701	0.8468	0.119	0.099	1.4443	0.2294
CASC15	rs9358448	21731736	G,A	0.9305	0.9625	0.197	0.166	1.409	0.2352
CASC15	rs60908846	21646239	I,R	0.758	0.8675	0.123	0.105	1.3625	0.2431
CASC15	rs80349490	21615188	T,C	0.9491	0.4807	-0.341	0.293	1.3597	0.2436
CASC15	rs139581361	21722128	G,A	0.9879	0.8119	-0.487	0.418	1.3577	0.2439
CASC15	rs1744876	21651003	T,C	0.8157	0.9901	0.126	0.108	1.3527	0.2448
CASC15	rs112617138	21576898	A,G	0.938	0.5193	-0.258	0.223	1.3436	0.2464

CASC15	rs112653724	21576915	G,A	0.9388	0.5234	-0.258	0.223	1.3308	0.2487
CASC15	rs9348484	21731460	C,G	0.93	0.9619	0.186	0.166	1.2664	0.2605
CASC15	rs36027263	21648358	I,R	0.7129	0.8819	0.114	0.101	1.2618	0.2613
CASC15	rs9460655	21641564	C,T	0.6926	0.8571	0.109	0.097	1.2612	0.2614
CASC15	rs10643502	21641556	T,C	0.688	0.853	0.108	0.097	1.2283	0.2677
CASC15	rs1740866	21664729	T,G	0.7801	0.807	0.128	0.116	1.2193	0.2695
CASC15	rs6934807	21653677	A,G	0.9709	0.9814	-0.248	0.232	1.1397	0.2857
CASC15	rs2759360	21653532	A,G	0.7648	0.8809	0.11	0.104	1.1058	0.293
CASC15	rs138387168	21716280	C,T	0.9765	0.7359	-0.324	0.309	1.0998	0.2943
CASC15	rs114455294	21693186	A,T	0.9731	0.5546	-0.314	0.301	1.0925	0.2959
CASC15	rs73737568	21667546	A,G	0.9719	0.8789	-0.26	0.249	1.0865	0.2972
CASC15	rs12374633	21654974	G,A	0.9698	0.9337	-0.241	0.233	1.067	0.3016
CASC15	rs113196987	21575419	A,G	0.9232	0.5162	-0.208	0.202	1.0645	0.3022
CASC15	rs77401992	21579608	A,G	0.9474	0.5364	-0.24	0.232	1.0637	0.3024
CASC15	rs75228175	21579117	C,T	0.9479	0.5358	-0.24	0.233	1.0554	0.3043
CASC15	rs112243204	21582142	T,C	0.9498	0.5703	-0.236	0.23	1.054	0.3046
CASC15	rs141673420	21695454	T,C	0.9835	0.3745	-0.567	0.553	1.0512	0.3052
CASC15	rs149746556	21731479	R,D	0.9872	0.7098	0.415	0.408	1.0349	0.309
CASC15	rs147596047	21733524	R,D	0.9872	0.709	0.415	0.408	1.0334	0.3094
CASC15	rs77258728	21734254	G,A	0.9872	0.709	0.415	0.408	1.0327	0.3095
CASC15	rs75935729	21733252	C,A	0.9872	0.709	0.414	0.408	1.0306	0.31
CASC15	rs78584490	21732145	C,T	0.9872	0.7096	0.414	0.408	1.0307	0.31
CASC15	rs79693897	21695822	R,D	0.6627	0.717	0.105	0.104	1.0284	0.3105
CASC15	rs201513044	21589010	R,D	0.9897	0.4337	-0.563	0.556	1.0241	0.3115
CASC15	rs530398575	21733586	R,I	0.8629	0.4934	0.168	0.167	1.0181	0.313
CASC15	rs146150526	21575243	T,C	0.9263	0.5346	-0.203	0.202	1.0116	0.3145
CASC15	rs4710983	21734202	C,T	0.767	0.9462	0.096	0.096	1.0106	0.3148
CASC15	rs530522537	21694259	R,D	0.9305	0.6164	-0.191	0.193	0.9818	0.3217
CASC15	rs1740827	21650969	A,T	0.7378	0.9342	0.099	0.1	0.9785	0.3226
CASC15	rs143393812	21633911	C,T	0.9816	0.5752	-0.388	0.392	0.9773	0.3229
CASC15	rs7739235	21609345	A,T	0.9799	0.962	-0.289	0.292	0.976	0.3232
CASC15	rs1740833	21646435	A,G	0.6798	0.9621	0.088	0.09	0.964	0.3262
CASC15	rs570404489	21689796	R,D	0.7798	0.3015	0.171	0.176	0.9495	0.3298
CASC15	rs111355896	21649454	I,R	0.7486	0.9074	0.1	0.102	0.9491	0.33
CASC15	rs35605844	21674022	D,R	0.6185	0.9309	0.088	0.091	0.9399	0.3323
CASC15	rs59187080	21668625	G,A	0.966	0.7875	-0.226	0.233	0.938	0.3328
CASC15	rs16885189	21729682	G,A	0.8667	0.9973	-0.114	0.119	0.9209	0.3372
CASC15	rs1740864	21668282	G,A	0.6096	0.9094	0.087	0.091	0.917	0.3383
CASC15	rs73374488	21666188	G,A	0.9707	0.8902	-0.231	0.242	0.907	0.3409
CASC15	rs6933506	21673857	T,C	0.9717	0.871	-0.237	0.251	0.8887	0.3458
CASC15	rs7739131	21727148	C,T	0.7149	0.9794	0.084	0.09	0.8816	0.3478
CASC15	rs113411153	21641562	D,R	0.7285	0.8541	0.097	0.103	0.8803	0.3481
CASC15	rs529643978	21641557	D,R	0.7285	0.854	0.097	0.103	0.8798	0.3482
CASC15	rs562290828	21641555	D,R	0.7285	0.8538	0.096	0.103	0.8786	0.3486
CASC15	rs1740863	21670641	C,T	0.6246	0.9994	0.083	0.088	0.8775	0.3489

CASC15	rs370328808	21641504	D,R	0.7285	0.8536	0.096	0.103	0.8765	0.3492
CASC15	rs561593549	21641496	C,T	0.7285	0.8534	0.096	0.103	0.8764	0.3492
CASC15	rs73737557	21570448	T,C	0.9333	0.4619	-0.215	0.229	0.8756	0.3494
CASC15	rs9460671	21731289	G,C	0.41	0.9868	-0.076	0.083	0.8374	0.3601
CASC15	rs2749688	21658487	G,C	0.6992	0.8356	0.088	0.097	0.8167	0.3661
CASC15	rs35612989	21663201	R,I	0.4311	0.4511	-0.111	0.123	0.8149	0.3667
CASC15	rs7744188	21694601	T,C	0.9149	0.6416	-0.148	0.165	0.809	0.3684
CASC15	rs148261621	21712086	R,I	0.7162	0.7178	0.099	0.11	0.8074	0.3689
CASC15	rs1744882	21657561	T,G	0.7003	0.8473	0.087	0.097	0.8004	0.371
CASC15	rs941990	21658881	A,G	0.6778	0.8561	0.082	0.092	0.7927	0.3733
CASC15	rs143796183	21587351	G,A	0.9851	0.3168	-0.629	0.709	0.7858	0.3754
CASC15	rs1744880	21653046	A,G	0.6868	0.9845	0.077	0.087	0.7854	0.3755
CASC15	rs113975012	21712110	A,T	0.9843	0.5172	-0.423	0.478	0.783	0.3762
CASC15	rs1744884	21663449	G,A	0.7593	0.786	0.099	0.112	0.7825	0.3764
CASC15	rs1740852	21608979	T,C	0.895	0.9932	0.117	0.132	0.7798	0.3772
CASC15	rs1740867	21663105	C,T	0.7594	0.7883	0.098	0.112	0.7688	0.3806
CASC15	rs79883278	21720741	C,T	0.9819	0.8353	0.255	0.291	0.7673	0.381
CASC15	rs7757467	21718123	C,T	0.9813	0.9676	0.241	0.277	0.758	0.384
CASC15	rs4712632	21732137	G,A	0.4138	0.9644	-0.071	0.082	0.7523	0.3857
CASC15	rs55686449	21702505	T,C	0.6687	0.8289	0.084	0.098	0.748	0.3871
CASC15	rs9368332	21731094	G,A	0.4156	0.9974	-0.07	0.082	0.7412	0.3893
CASC15	rs115900264	21738499	A,G	0.8705	0.965	-0.106	0.123	0.7387	0.3901
CASC15	rs534329540	21629251	R,I	0.4972	0.5784	-0.095	0.11	0.7355	0.3911
CASC15	rs141007801	21722788	R,I	0.8394	0.8482	0.109	0.127	0.7301	0.3929
CASC15	rs1740837	21633917	C,T	0.6783	0.9174	0.078	0.092	0.7278	0.3936
CASC15	rs1744879	21652741	A,G	0.6892	0.9997	0.074	0.087	0.7254	0.3944
CASC15	rs7739666	21718260	T,C	0.9818	0.939	0.241	0.283	0.7248	0.3946
CASC15	rs9460657	21660051	C,T	0.8938	0.8161	-0.115	0.136	0.7143	0.398
CASC15	rs62403971	21702621	T,C	0.6704	0.8339	0.082	0.097	0.7136	0.3983
CASC15	rs77991965	21694060	G,A	0.9358	0.6372	-0.17	0.201	0.7131	0.3984
CASC15	rs4712628	21702070	C,G	0.6704	0.828	0.082	0.098	0.7095	0.3996
CASC15	rs79164129	21601917	T,C	0.9855	0.3283	0.509	0.606	0.7066	0.4006
CASC15	rs1740830	21648615	C,T	0.867	0.7367	0.121	0.144	0.7047	0.4012
CASC15	rs11757166	21652990	C,T	0.6883	0.9879	0.073	0.087	0.7035	0.4016
CASC15	rs140066406	21728813	R,I	0.8701	0.9744	-0.101	0.121	0.7006	0.4026
CASC15	rs7754999	21705723	C,T	0.6691	0.8543	0.08	0.096	0.6935	0.405
CASC15	rs7757232	21717818	G,A	0.9819	0.9404	0.235	0.283	0.6911	0.4058
CASC15	rs11380611	21703686	R,I	0.6704	0.84	0.08	0.097	0.6866	0.4073
CASC15	rs10946462	21651830	C,T	0.6894	0.9828	0.073	0.088	0.686	0.4075
CASC15	rs7753199	21717706	G,A	0.9819	0.9391	0.234	0.283	0.6853	0.4078
CASC15	rs4710981	21732702	G,C	0.4166	0.9635	-0.068	0.082	0.685	0.4079
CASC15	rs6933476	21720156	G,A	0.9819	0.8936	0.237	0.288	0.6793	0.4098
CASC15	rs4712633	21738249	A,G	0.8598	1	-0.097	0.117	0.6788	0.41
CASC15	rs7739775	21727465	C,T	0.87	0.9769	-0.099	0.121	0.6743	0.4116
CASC15	rs561618338	21639342	R,I	0.9855	0.4795	-0.402	0.491	0.6714	0.4126

CASC15	rs11753001	21726506	T,C	0.9147	0.5112	-0.175	0.214	0.6643	0.4151
CASC15	rs7760462	21730877	G,C	0.4165	0.9846	-0.067	0.082	0.6637	0.4152
CASC15	rs2180418	21690172	A,G	0.8397	0.9885	0.091	0.112	0.6626	0.4156
CASC15	rs12525631	21730840	C,T	0.8794	0.9968	-0.102	0.125	0.6627	0.4156
CASC15	rs9460659	21696569	G,C	0.6689	0.7266	0.084	0.104	0.6624	0.4157
CASC15	rs840981	21740238	G,A	0.4381	1	-0.066	0.081	0.6618	0.4159
CASC15	rs1744877	21651554	T,C	0.6891	0.9768	0.071	0.088	0.6579	0.4173
CASC15	rs73376030	21700390	T,G	0.6688	0.8019	0.08	0.099	0.6573	0.4175
CASC15	rs6933751	21704108	T,C	0.672	0.8471	0.078	0.097	0.6547	0.4184
CASC15	rs2328624	21703736	G,C	0.672	0.8448	0.078	0.097	0.6534	0.4189
CASC15	rs2328625	21703880	T,C	0.6717	0.8446	0.078	0.097	0.6528	0.4191
CASC15	rs2328626	21703885	C,T	0.6717	0.8448	0.078	0.097	0.6525	0.4192
CASC15	rs6927945	21703341	T,C	0.672	0.841	0.078	0.097	0.6527	0.4192
CASC15	rs1740826	21651528	G,A	0.6892	0.9762	0.071	0.088	0.6516	0.4196
CASC15	rs57442902	21704602	C,T	0.6719	0.8494	0.078	0.097	0.6497	0.4202
CASC15	rs9466155	21707222	G,A	0.6726	0.8766	0.077	0.095	0.6487	0.4206
CASC15	rs11751574	21702901	G,A	0.6716	0.8382	0.078	0.097	0.6452	0.4218
CASC15	rs7761575	21701475	C,T	0.672	0.8148	0.079	0.099	0.6435	0.4225
CASC15	rs1744885	21670816	A,G	0.4476	0.9803	-0.074	0.092	0.6431	0.4226
CASC15	rs4712627	21701892	C,T	0.6719	0.828	0.078	0.098	0.6419	0.423
CASC15	rs7761844	21701456	G,A	0.6722	0.8149	0.079	0.099	0.6421	0.423
CASC15	rs7761595	21701550	A,G	0.6721	0.8165	0.079	0.099	0.6415	0.4232
CASC15	rs62403969	21702409	A,C	0.6716	0.8327	0.078	0.098	0.641	0.4234
CASC15	rs4712629	21702103	A,G	0.6716	0.83	0.078	0.098	0.6396	0.4239
CASC15	rs4712630	21702161	T,C	0.6716	0.8305	0.078	0.098	0.6389	0.4241
CASC15	rs182063949	21738643	T,A	0.9864	0.6453	0.33	0.414	0.6362	0.4251
CASC15	rs7762010	21701594	G,A	0.6719	0.8177	0.079	0.098	0.636	0.4252
CASC15	rs78937245	21738761	C,T	0.9864	0.6447	0.33	0.414	0.6338	0.426
CASC15	rs840982	21740321	T,C	0.4378	0.9967	-0.065	0.081	0.633	0.4263
CASC15	rs1744858	21626190	T,C	0.6849	0.9807	0.071	0.089	0.6328	0.4263
CASC15	rs6904795	21703099	A,G	0.6649	0.8486	0.077	0.096	0.6309	0.427
CASC15	rs112153247	21701183	C,T	0.6716	0.8121	0.078	0.099	0.6292	0.4277
CASC15	rs62406887	21701319	C,T	0.6717	0.8135	0.078	0.099	0.6274	0.4283
CASC15	rs59730691	21701056	C,T	0.6717	0.8117	0.078	0.099	0.6272	0.4284
CASC15	rs1740841	21627053	G,T	0.6852	0.9798	0.07	0.089	0.6242	0.4295
CASC15	rs13362741	21700158	A,C	0.6707	0.8039	0.078	0.099	0.6222	0.4302
CASC15	rs6456443	21716233	G,A	0.9818	0.9202	0.224	0.284	0.6222	0.4302
CASC15	rs62406886	21701119	T,C	0.6631	0.8167	0.077	0.098	0.6191	0.4314
CASC15	rs9460670	21731138	C,A	0.877	0.9736	-0.098	0.125	0.6173	0.4321
CASC15	rs1744859	21626395	T,C	0.685	0.9803	0.07	0.089	0.6158	0.4326
CASC15	rs1740843	21623041	G,A	0.6876	0.9919	0.07	0.089	0.6113	0.4343
CASC15	rs7751397	21662535	C,T	0.9285	0.8402	-0.129	0.166	0.609	0.4352
CASC15	rs7771671	21662524	T,G	0.9284	0.8382	-0.129	0.166	0.6083	0.4354
CASC15	rs57792403	21738640	R,D	0.4364	0.9838	-0.063	0.082	0.6039	0.4371
CASC15	rs11438117	21660100	R,I	0.4211	0.4868	-0.092	0.12	0.5936	0.441

CASC15	rs36093392	21601725	D,R	0.7127	0.8142	0.075	0.097	0.5898	0.4425
CASC15	rs117538721	21647180	T,C	0.986	0.5245	-0.369	0.483	0.5833	0.445
CASC15	rs6456440	21658236	C,A	0.9344	0.7776	-0.128	0.167	0.5822	0.4455
CASC15	rs4712626	21701841	G,A	0.6545	0.8328	0.073	0.096	0.5812	0.4458
CASC15	rs9466158	21717309	T,C	0.7892	0.921	0.079	0.104	0.5764	0.4477
CASC15	rs7739186	21657833	T,C	0.9158	0.8085	-0.118	0.156	0.574	0.4487
CASC15	rs78265086	21720541	T,C	0.9826	0.8636	0.223	0.294	0.5736	0.4488
CASC15	rs116187696	21639646	G,A	0.9868	0.5351	-0.367	0.485	0.5725	0.4493
CASC15	rs141900910	21647244	C,T	0.9864	0.543	-0.364	0.482	0.5691	0.4506
CASC15	rs9358450	21740882	A,G	0.746	0.858	0.074	0.098	0.5674	0.4513
CASC15	rs111928481	21648542	T,A	0.9738	0.8848	-0.198	0.265	0.5593	0.4545
CASC15	rs34197291	21611277	R,D	0.7729	0.7368	-0.088	0.117	0.5588	0.4547
CASC15	rs4712623	21688978	C,T	0.638	0.848	0.067	0.09	0.552	0.4575
CASC15	rs111442391	21730723	C,T	0.9726	0.3086	0.321	0.433	0.5483	0.459
CASC15	rs112395953	21727909	A,C	0.885	0.9741	-0.094	0.127	0.5391	0.4628
CASC15	rs111404042	21565201	G,A	0.9548	0.5207	-0.196	0.267	0.5385	0.4631
CASC15	rs113989215	21665766	A,C	0.9131	0.855	-0.105	0.143	0.5344	0.4648
CASC15	rs1744865	21631078	A,C	0.6628	0.9515	0.066	0.09	0.5337	0.4651
CASC15	rs6456438	21632215	G,A	0.7029	0.9547	0.068	0.093	0.5331	0.4653
CASC15	rs117061311	21683546	G,A	0.9853	0.4203	-0.367	0.505	0.5258	0.4684
CASC15	rs7740486	21714797	A,G	0.9818	0.8978	0.208	0.287	0.5246	0.4689
CASC15	rs7741780	21685460	A,G	0.8336	0.732	0.091	0.127	0.5111	0.4747
CASC15	rs60336041	21714991	A,C	0.9818	0.9007	0.204	0.287	0.5081	0.4759
CASC15	rs149768565	21719941	R,D	0.9754	0.6872	0.203	0.284	0.5073	0.4763
CASC15	rs9466154	21706155	G,T	0.6423	0.8816	0.065	0.092	0.5058	0.477
CASC15	rs571708107	21634038	D,R	0.6795	0.8686	0.067	0.095	0.499	0.48
CASC15	rs111482236	21588455	T,C	0.9537	0.6111	-0.179	0.253	0.4989	0.48
CASC15	rs200822534	21701029	R,D	0.6386	0.6957	0.074	0.105	0.4919	0.4831
CASC15	rs73378032	21744446	C,A	0.9796	0.3201	0.311	0.447	0.4844	0.4864
CASC15	rs112524196	21743604	G,A	0.9794	0.3214	0.309	0.445	0.4815	0.4877
CASC15	rs11327351	21623643	D,R	0.6711	0.9267	0.063	0.092	0.4703	0.4928
CASC15	rs9358442	21573637	G,A	0.7034	0.4581	-0.089	0.132	0.4603	0.4975
CASC15	rs1740854	21680732	A,C	0.6112	0.9639	0.06	0.089	0.4589	0.4981
CASC15	rs6925119	21701083	G,A	0.6412	0.822	0.064	0.095	0.4588	0.4982
CASC15	rs1744857	21626067	T,C	0.6993	0.9886	0.061	0.09	0.4586	0.4983
CASC15	rs9368333	21743631	A,C	0.9748	0.5254	-0.202	0.299	0.4554	0.4998
CASC15	rs1740868	21660205	G,T	0.6798	0.8487	0.063	0.094	0.4541	0.5004
CASC15	rs1744862	21629881	C,A	0.6612	0.9531	0.06	0.089	0.4538	0.5006
CASC15	rs1744863	21629887	A,G	0.6612	0.9532	0.06	0.089	0.4537	0.5006
CASC15	rs7739607	21632345	G,C	0.6821	0.9067	0.064	0.095	0.453	0.5009
CASC15	rs840985	21744508	G,A	0.5605	0.3093	-0.097	0.143	0.4531	0.5009
CASC15	rs1744860	21627046	A,G	0.6998	0.9875	0.061	0.091	0.4504	0.5022
CASC15	rs1744850	21618916	G,T	0.7128	0.9828	0.061	0.091	0.4492	0.5027
CASC15	rs7742225	21685474	G,A	0.827	0.7132	0.086	0.128	0.4487	0.5029
CASC15	rs9460660	21709294	T,C	0.616	0.9365	0.058	0.087	0.4458	0.5043

CASC15	rs4327678	21619771	T,C	0.7132	0.9834	0.061	0.091	0.4455	0.5045
CASC15	rs138585583	21678890	R,D	0.8749	0.9014	-0.077	0.115	0.4445	0.505
CASC15	rs11284636	21591706	R,D	0.9858	0.4225	-0.33	0.496	0.4441	0.5052
CASC15	rs111232506	21744922	C,T	0.9798	0.3015	0.306	0.462	0.4385	0.5078
CASC15	rs150766348	21706424	R,D	0.6681	0.8073	0.065	0.098	0.4345	0.5098
CASC15	rs116300465	21738509	T,G	0.8638	0.9326	-0.081	0.123	0.4345	0.5098
CASC15	rs1744864	21630684	C,T	0.7008	1	0.059	0.09	0.4261	0.5139
CASC15	rs201884896	21657694	D,R	0.9455	0.3238	0.217	0.336	0.4173	0.5183
CASC15	rs141898580	21709985	C,T	0.9816	0.8379	0.188	0.292	0.4163	0.5188
CASC15	rs6924745	21693837	C,T	0.8421	0.8514	0.08	0.124	0.4156	0.5191
CASC15	rs2749684	21676485	C,T	0.6168	0.9872	0.056	0.087	0.412	0.5209
CASC15	rs57761609	21683420	D,R	0.6127	0.8292	0.061	0.095	0.4077	0.5232
CASC15	rs12664833	21614978	T,G	0.8033	0.9552	-0.067	0.106	0.404	0.5251
CASC15	rs116598598	21654884	A,T	0.983	0.5411	-0.265	0.422	0.3929	0.5308
CASC15	rs7759495	21706044	G,A	0.6142	0.9046	0.055	0.088	0.3854	0.5347
CASC15	rs9366406	21617668	T,A	0.7397	0.9296	-0.059	0.095	0.383	0.536
CASC15	rs1740850	21618925	C,G	0.7147	0.9839	0.056	0.091	0.3796	0.5378
CASC15	rs1744851	21619810	T,C	0.7153	0.9819	0.056	0.091	0.3784	0.5385
CASC15	rs74831068	21693978	T,C	0.8189	0.778	-0.074	0.121	0.3724	0.5417
CASC15	rs571632729	21726382	R,I	0.896	0.3926	-0.128	0.211	0.3709	0.5425
CASC15	rs9466159	21721313	A,G	0.8227	0.9323	0.071	0.118	0.3678	0.5442
CASC15	rs59759742	21707319	T,G	0.6009	0.9285	0.051	0.085	0.365	0.5457
CASC15	rs1744849	21612949	A,G	0.7238	1	0.055	0.092	0.3626	0.547
CASC15	rs1740851	21616268	T,C	0.7152	0.9852	0.055	0.091	0.36	0.5485
CASC15	rs7739585	21632295	A,C	0.6764	0.9279	0.056	0.093	0.3595	0.5488
CASC15	rs7773111	21696531	G,A	0.6146	0.751	0.058	0.097	0.3585	0.5494
CASC15	rs35829440	21655243	R,I	0.602	0.3134	-0.091	0.152	0.3564	0.5505
CASC15	rs369470901	21707320	R,I	0.6014	0.9269	0.051	0.085	0.3563	0.5506
CASC15	rs189742413	21683505	C,T	0.984	0.4632	-0.237	0.399	0.3513	0.5534
CASC15	rs112039884	21729100	C,T	0.9274	0.9676	0.096	0.163	0.3479	0.5553
CASC15	rs116443937	21600982	A,T	0.9889	0.6106	-0.281	0.478	0.3456	0.5566
CASC15	rs1740840	21627378	G,A	0.7156	0.9808	0.054	0.092	0.3448	0.5571
CASC15	rs4712625	21699342	G,A	0.8761	0.9937	0.074	0.127	0.3391	0.5604
CASC15	rs1744889	21676795	A,G	0.6165	0.9936	0.05	0.087	0.337	0.5616
CASC15	rs6456437	21615443	T,C	0.7388	0.9506	-0.054	0.094	0.333	0.5639
CASC15	rs79846403	21723244	C,T	0.8348	0.8403	0.072	0.126	0.3267	0.5676
CASC15	rs118074543	21601297	C,G	0.9891	0.6166	-0.273	0.479	0.3253	0.5684
CASC15	rs115252874	21601345	A,C	0.9891	0.6163	-0.272	0.48	0.3226	0.57
CASC15	rs4712631	21710896	C,T	0.586	0.9993	0.046	0.081	0.3208	0.5711
CASC15	rs79753782	21594201	C,A	0.9506	0.6778	-0.13	0.233	0.3097	0.5778
CASC15	rs9358441	21565339	T,C	0.7025	0.3571	-0.079	0.142	0.3066	0.5798
CASC15	rs9466145	21677060	A,C	0.6171	1	0.048	0.086	0.3051	0.5807
CASC15	rs9460668	21727929	C,G	0.8216	0.9705	0.063	0.114	0.3042	0.5812
CASC15	rs16885175	21726770	A,G	0.8585	0.8892	-0.068	0.123	0.304	0.5814
CASC15	rs11330136	21629471	D,R	0.7	0.9778	0.05	0.091	0.3036	0.5816

CASC15	rs9466153	21700048	C,T	0.9445	0.5887	-0.11	0.2	0.301	0.5832
CASC15	rs79949484	21728966	G,A	0.9319	0.8819	0.096	0.176	0.2985	0.5848
CASC15	rs73374447	21636151	C,T	0.9753	0.3	0.24	0.441	0.2966	0.586
CASC15	rs1740839	21629928	G,A	0.7114	0.9827	0.05	0.092	0.2952	0.5869
CASC15	rs9366408	21742607	G,A	0.9822	0.9856	-0.14	0.258	0.2937	0.5878
CASC15	rs57690989	21652353	T,G	0.9629	0.903	-0.111	0.206	0.2918	0.589
CASC15	rs140423760	21646093	C,A	0.9884	0.552	-0.272	0.505	0.2909	0.5896
CASC15	rs78529444	21722481	A,G	0.9876	0.8222	-0.221	0.411	0.2892	0.5907
CASC15	rs115731554	21723090	C,T	0.9877	0.8291	-0.218	0.41	0.2814	0.5958
CASC15	rs183503583	21638847	G,A	0.9885	0.5492	-0.268	0.507	0.2789	0.5974
CASC15	rs35578300	21741886	R,D	0.7077	0.8309	0.05	0.096	0.2746	0.6003
CASC15	rs111357910	21723888	A,G	0.988	0.8511	-0.214	0.41	0.2732	0.6012
CASC15	rs6456442	21698279	T,C	0.5821	0.821	0.046	0.09	0.2655	0.6064
CASC15	rs116342166	21630548	T,C	0.9891	0.5558	-0.263	0.511	0.2646	0.607
CASC15	rs115733488	21695961	T,C	0.9892	0.5305	-0.215	0.419	0.2642	0.6072
CASC15	rs73392015	21591766	C,T	0.9671	0.4088	-0.187	0.371	0.2557	0.6131
CASC15	rs75994264	21745903	C,T	0.9868	0.3369	0.288	0.571	0.2546	0.6138
CASC15	rs9466164	21723538	A,G	0.8284	0.9494	0.059	0.118	0.2545	0.6139
CASC15	rs146017644	21640727	C,T	0.9833	0.5529	-0.217	0.43	0.2541	0.6142
CASC15	rs7772337	21726278	C,T	0.8256	0.9612	0.058	0.116	0.2532	0.6148
CASC15	rs60368679	21746134	C,T	0.9868	0.3206	0.293	0.584	0.2516	0.616
CASC15	rs36024930	21605537	R,D	0.7795	0.8154	-0.055	0.11	0.2473	0.619
CASC15	rs199690993	21646009	R,D	0.9762	0.3058	0.221	0.445	0.2461	0.6198
CASC15	rs145960980	21729330	D,R	0.4093	0.9758	-0.041	0.083	0.2435	0.6217
CASC15	rs112837708	21696451	G,A	0.9648	0.4436	-0.14	0.286	0.2406	0.6238
CASC15	rs9348480	21617782	G,A	0.7922	0.9408	-0.05	0.102	0.2398	0.6244
CASC15	rs4712620	21554898	A,C	0.6509	0.3847	-0.064	0.13	0.2376	0.6259
CASC15	rs78502915	21591248	G,T	0.9567	0.6759	-0.119	0.245	0.2372	0.6262
CASC15	rs35001920	21676726	R,D	0.4775	0.9497	-0.044	0.091	0.236	0.6271
CASC15	rs79232286	21689146	G,A	0.8483	0.7428	-0.065	0.133	0.2347	0.6281
CASC15	rs113932195	21562740	T,C	0.9088	0.469	-0.087	0.181	0.232	0.63
CASC15	rs62403977	21725337	C,T	0.8232	0.9705	0.055	0.115	0.2307	0.631
CASC15	rs145952396	21677173	C,T	0.9854	0.5637	-0.209	0.437	0.2274	0.6335
CASC15	rs7740142	21609635	G,A	0.9809	0.955	-0.143	0.301	0.2261	0.6344
CASC15	rs1407655	21727902	G,A	0.4028	0.9882	-0.039	0.083	0.2253	0.635
CASC15	rs7746424	21685920	C,T	0.9762	0.4981	-0.179	0.377	0.2251	0.6352
CASC15	rs9460666	21726380	G,A	0.9296	0.3512	-0.122	0.258	0.2233	0.6365
CASC15	rs7746292	21685907	A,G	0.9762	0.4817	-0.181	0.383	0.2225	0.6371
CASC15	rs111479343	21561070	G,T	0.9092	0.4694	-0.086	0.182	0.2216	0.6378
CASC15	rs1830667	21728089	G,T	0.4027	0.9868	-0.039	0.083	0.2193	0.6396
CASC15	rs9466156	21711491	C,T	0.5874	0.9998	0.038	0.081	0.2184	0.6403
CASC15	rs111684701	21608562	C,T	0.9809	0.9509	-0.141	0.302	0.2178	0.6407
CASC15	rs149555362	21726144	T,C	0.9879	0.8456	-0.189	0.409	0.213	0.6444
CASC15	rs10636012	21727515	I,R	0.4062	0.9929	-0.038	0.083	0.2128	0.6446
CASC15	rs2180419	21728317	A,G	0.4028	0.9843	-0.038	0.083	0.2117	0.6455

CASC15	rs9466136	21653258	C,T	0.905	0.8569	-0.063	0.138	0.2109	0.6461
CASC15	rs571788443	21558875	R,D	0.8581	0.3304	-0.079	0.173	0.2098	0.6469
CASC15	rs112892524	21608321	C,T	0.981	0.9464	-0.138	0.302	0.209	0.6476
CASC15	rs116239840	21722970	A,C	0.8218	0.9134	0.053	0.116	0.2077	0.6486
CASC15	rs75062640	21722533	A,G	0.9823	0.8162	0.151	0.335	0.2037	0.6518
CASC15	rs1744887	21674378	G,T	0.9679	0.3275	-0.172	0.382	0.2028	0.6525
CASC15	rs116258702	21618081	C,T	0.9891	0.5647	-0.224	0.503	0.1989	0.6556
CASC15	rs75327712	21728829	G,A	0.9295	0.9778	0.073	0.165	0.1959	0.658
CASC15	rs73376077	21720504	C,T	0.7969	0.9025	0.049	0.11	0.1953	0.6586
CASC15	rs7746895	21686168	C,A	0.9752	0.5028	-0.162	0.368	0.1934	0.6601
CASC15	rs7747757	21686714	C,T	0.9752	0.5035	-0.161	0.367	0.1919	0.6614
CASC15	rs115180462	21686653	G,C	0.9752	0.5032	-0.161	0.367	0.1914	0.6617
CASC15	rs78278852	21688571	G,A	0.9753	0.5113	-0.16	0.365	0.1911	0.662
CASC15	rs7746432	21685933	C,T	0.9755	0.5041	-0.161	0.369	0.1911	0.662
CASC15	rs7772258	21686985	T,C	0.8466	0.7118	-0.059	0.136	0.1908	0.6623
CASC15	rs142460847	21687632	A,G	0.9751	0.5044	-0.16	0.366	0.1907	0.6623
CASC15	rs9350367	21555608	C,T	0.6563	0.3839	-0.058	0.132	0.1907	0.6624
CASC15	rs35922627	21667988	A,T	0.973	0.7238	-0.128	0.294	0.1902	0.6628
CASC15	rs4710982	21733835	G,C	0.8653	0.9343	-0.053	0.123	0.1896	0.6632
CASC15	rs9350368	21562144	A,G	0.6823	0.3726	-0.059	0.135	0.1895	0.6634
CASC15	rs71563994	21668435	T,C	0.9731	0.7255	-0.128	0.294	0.1894	0.6634
CASC15	rs78686872	21566786	T,C	0.9087	0.4686	-0.079	0.181	0.1893	0.6635
CASC15	rs78225455	21566785	T,A	0.9087	0.4686	-0.079	0.181	0.189	0.6638
CASC15	rs148767257	21687606	C,T	0.9752	0.5064	-0.159	0.366	0.1889	0.6638
CASC15	rs13220312	21671856	A,G	0.9734	0.7398	-0.126	0.293	0.1862	0.6661
CASC15	rs35210528	21667781	T,C	0.9732	0.7254	-0.127	0.295	0.1845	0.6675
CASC15	rs116216476	21700308	T,C	0.9886	0.6467	-0.186	0.434	0.1834	0.6684
CASC15	rs545611803	21688770	R,I	0.8158	0.533	-0.061	0.143	0.1833	0.6685
CASC15	rs66647983	21633079	R,D	0.5368	0.3749	-0.057	0.134	0.1824	0.6693
CASC15	rs147045541	21675767	C,T	0.9834	0.576	-0.17	0.399	0.1815	0.6701
CASC15	rs146269383	21601263	G,A	0.9772	0.8168	-0.138	0.327	0.1784	0.6727
CASC15	rs10946466	21727456	C,A	0.9298	0.9928	0.069	0.164	0.1782	0.673
CASC15	rs7772163	21726011	G,C	0.8088	0.9857	0.046	0.109	0.1777	0.6733
CASC15	rs76714354	21572464	A,G	0.9805	0.3806	0.189	0.449	0.1765	0.6744
CASC15	rs117396734	21615374	A,T	0.9894	0.5869	-0.21	0.5	0.1765	0.6744
CASC15	rs1322883	21720796	A,G	0.5867	0.9164	0.035	0.084	0.176	0.6749
CASC15	rs7738506	21702690	A,T	0.9888	0.6716	-0.18	0.432	0.1738	0.6767
CASC15	rs1740844	21622871	C,T	0.6724	0.9911	0.036	0.086	0.1736	0.6769
CASC15	rs7740084	21727531	A,G	0.4005	0.9983	-0.035	0.083	0.1727	0.6777
CASC15	rs9460651	21622531	G,T	0.672	0.9951	0.036	0.086	0.1719	0.6784
CASC15	rs58919806	21570038	G,A	0.8921	0.397	-0.076	0.184	0.1712	0.6791
CASC15	rs547687648	21729656	R,I	0.7892	0.8727	-0.044	0.107	0.1709	0.6793
CASC15	rs528217121	21702677	R,D	0.9888	0.6785	-0.178	0.431	0.1704	0.6797
CASC15	rs60309622	21698465	C,T	0.9414	0.5673	-0.082	0.199	0.1701	0.68
CASC15	rs1740842	21623181	G,A	0.6726	0.9885	0.036	0.087	0.17	0.6801

CASC15	rs7764209	21727755	A,T	0.4006	0.9953	-0.034	0.083	0.1697	0.6804
CASC15	rs1744853	21623386	A,G	0.6725	0.9887	0.036	0.087	0.1697	0.6804
CASC15	rs1744854	21623686	C,T	0.6725	0.9882	0.036	0.087	0.1686	0.6814
CASC15	rs7744078	21727822	G,C	0.4006	0.9944	-0.034	0.083	0.1681	0.6818
CASC15	rs11968460	21718604	G,A	0.8056	0.9024	0.046	0.113	0.1678	0.6821
CASC15	rs7775506	21729962	C,T	0.4216	0.9976	-0.032	0.08	0.1658	0.6838
CASC15	rs80177376	21744978	C,T	0.9048	0.3545	0.094	0.232	0.1641	0.6854
CASC15	rs562901644	21554922	R,D	0.9157	0.7168	-0.064	0.16	0.1612	0.6881
CASC15	rs9466163	21723532	C,T	0.809	0.9768	0.043	0.109	0.1569	0.692
CASC15	rs6928871	21697812	T,C	0.9391	0.571	-0.077	0.194	0.1565	0.6924
CASC15	rs76144443	21697748	A,G	0.9391	0.5709	-0.077	0.194	0.1565	0.6924
CASC15	rs6929045	21697861	T,C	0.9391	0.5712	-0.076	0.194	0.156	0.6928
CASC15	rs115395409	21696639	C,T	0.99	0.5674	-0.21	0.533	0.156	0.6929
CASC15	rs6906248	21697889	A,G	0.9391	0.5714	-0.076	0.194	0.1558	0.693
CASC15	rs117804382	21656810	C,T	0.9855	0.5625	-0.174	0.44	0.1558	0.693
CASC15	rs79847215	21560355	C,A	0.9848	0.3334	0.207	0.526	0.1549	0.6939
CASC15	rs6906888	21697966	G,A	0.9391	0.5729	-0.076	0.193	0.153	0.6957
CASC15	rs9460665	21724144	G,A	0.8084	1	0.042	0.109	0.15	0.6985
CASC15	rs145825998	21695945	T,G	0.9899	0.5601	-0.207	0.534	0.1499	0.6986
CASC15	rs150071402	21610552	G,A	0.9896	0.5952	-0.194	0.502	0.1498	0.6987
CASC15	rs56004640	21716262	A,G	0.8113	0.9096	0.044	0.114	0.1483	0.7002
CASC15	rs74785728	21611723	G,A	0.9819	0.9332	-0.121	0.315	0.148	0.7005
CASC15	rs9295516	21673560	C,T	0.9483	0.8605	-0.069	0.179	0.1475	0.701
CASC15	rs185847252	21676018	G,A	0.9496	0.8487	-0.07	0.182	0.147	0.7014
CASC15	rs117537289	21661595	C,T	0.9854	0.5671	-0.166	0.436	0.1455	0.7029
CASC15	rs9460664	21723621	G,A	0.8102	0.9858	0.042	0.11	0.1452	0.7032
CASC15	rs6925679	21724480	A,G	0.8086	1	0.041	0.109	0.1441	0.7042
CASC15	rs140643662	21664544	G,A	0.9855	0.5752	-0.165	0.434	0.144	0.7043
CASC15	rs9466165	21724322	T,C	0.8089	0.9953	0.041	0.109	0.1428	0.7056
CASC15	rs7772692	21696544	A,G	0.9472	0.5318	-0.084	0.221	0.1427	0.7056
CASC15	rs138691949	21653247	A,T	0.9812	0.5466	-0.15	0.398	0.1427	0.7056
CASC15	rs116878740	21665291	A,G	0.9855	0.5757	-0.164	0.434	0.1427	0.7056
CASC15	rs1555529	21691704	A,G	0.7822	0.9942	0.037	0.1	0.1413	0.707
CASC15	rs6926491	21724670	G,A	0.8091	0.9926	0.041	0.109	0.1413	0.707
CASC15	rs76857610	21685543	G,T	0.9888	0.4734	-0.206	0.549	0.1408	0.7075
CASC15	rs12189901	21726940	G,A	0.9308	0.9638	0.062	0.168	0.1391	0.7092
CASC15	rs12528487	21735354	A,G	0.8629	0.9338	-0.045	0.122	0.1368	0.7115
CASC15	rs7754702	21696403	T,C	0.9482	0.5267	-0.083	0.226	0.1367	0.7116
CASC15	rs4712624	21693152	A,G	0.843	0.7383	-0.048	0.131	0.136	0.7123
CASC15	rs76934110	21669629	G,A	0.9626	0.7982	-0.095	0.259	0.1348	0.7135
CASC15	rs6929294	21698041	T,G	0.9394	0.5831	-0.07	0.192	0.1339	0.7144
CASC15	rs6929483	21698094	T,C	0.9394	0.583	-0.07	0.192	0.1325	0.7158
CASC15	rs73737558	21577723	A,G	0.9837	0.4293	0.169	0.463	0.1326	0.7158
CASC15	rs113064891	21606092	R,I	0.9811	0.9369	-0.11	0.304	0.131	0.7174
CASC15	rs7753451	21607833	T,C	0.9894	0.606	-0.177	0.491	0.1298	0.7187

CASC15	rs79684204	21687368	A,C	0.9748	0.5098	-0.13	0.361	0.1291	0.7193
CASC15	rs147795739	21606396	C,G	0.9894	0.6082	-0.175	0.49	0.1274	0.7212
CASC15	rs7770799	21553258	A,C	0.9337	0.9722	-0.056	0.157	0.1265	0.722
CASC15	rs9460658	21684193	C,T	0.9792	0.347	0.177	0.497	0.1263	0.7223
CASC15	rs1853345	21742346	T,C	0.73	0.9808	0.031	0.088	0.1257	0.7229
CASC15	rs150345835	21568080	R,D	0.983	0.3784	0.171	0.483	0.1253	0.7234
CASC15	rs58699714	21698897	C,T	0.9395	0.5888	-0.068	0.192	0.1251	0.7236
CASC15	rs112047759	21699028	T,C	0.9395	0.5892	-0.068	0.192	0.125	0.7237
CASC15	rs112103466	21699063	T,C	0.9395	0.5894	-0.068	0.192	0.1246	0.7241
CASC15	rs7755254	21699892	C,T	0.9389	0.6037	-0.067	0.189	0.1241	0.7246
CASC15	rs56175726	21566498	G,A	0.9534	0.3503	0.111	0.316	0.1239	0.7248
CASC15	rs1740865	21668071	C,A	0.5314	0.8949	-0.033	0.093	0.1237	0.725
CASC15	rs7775517	21699901	T,G	0.9389	0.6039	-0.066	0.189	0.1236	0.7251
CASC15	rs35857450	21622415	D,R	0.6703	0.8902	0.032	0.091	0.1229	0.7259
CASC15	rs7751661	21621850	G,A	0.6705	1	0.03	0.085	0.1218	0.7271
CASC15	rs117971178	21674146	C,T	0.9852	0.5427	-0.152	0.438	0.1211	0.7278
CASC15	rs149455365	21553549	R,D	0.9357	0.9431	-0.056	0.16	0.1208	0.7282
CASC15	rs78098947	21713740	C,T	0.989	0.7788	-0.144	0.417	0.1186	0.7305
CASC15	rs111526226	21567385	T,C	0.968	0.4673	0.107	0.311	0.1185	0.7307
CASC15	rs1744886	21671092	A,T	0.5151	0.9725	-0.031	0.09	0.1165	0.7328
CASC15	rs72317305	21669872	R,D	0.5156	0.9662	-0.031	0.09	0.1165	0.7329
CASC15	rs113815998	21709365	G,T	0.9608	0.7324	-0.077	0.227	0.1161	0.7334
CASC15	rs67418443	21554442	C,T	0.9266	0.876	-0.052	0.153	0.1152	0.7343
CASC15	rs146516474	21554348	C,T	0.9266	0.8769	-0.052	0.153	0.1151	0.7344
CASC15	rs58572340	21555505	T,A	0.8729	0.5846	-0.048	0.141	0.1135	0.7362
CASC15	rs147960757	21606492	G,T	0.9772	0.8203	-0.11	0.327	0.1134	0.7364
CASC15	rs2876599	21714103	C,G	0.9889	0.7808	-0.139	0.416	0.1117	0.7383
CASC15	rs74926222	21568994	C,T	0.9816	0.3776	0.154	0.464	0.1111	0.7389
CASC15	rs73392011	21569756	C,T	0.9671	0.445	0.104	0.314	0.1099	0.7402
CASC15	rs141765572	21679089	G,T	0.9877	0.5484	0.177	0.533	0.1096	0.7406
CASC15	rs79381952	21699489	T,C	0.9398	0.6026	-0.063	0.19	0.1093	0.7409
CASC15	rs76428292	21629756	C,A	0.974	0.7112	-0.108	0.327	0.1094	0.7409
CASC15	rs2328627	21714362	G,A	0.9889	0.782	-0.136	0.416	0.1067	0.7439
CASC15	rs561391795	21725044	R,D	0.9346	0.4431	-0.074	0.228	0.1065	0.7442
CASC15	rs7754895	21696533	T,C	0.9459	0.5325	-0.071	0.218	0.1052	0.7456
CASC15	rs78030412	21631511	T,C	0.9731	0.7032	-0.104	0.323	0.1042	0.7468
CASC15	rs145907846	21729085	G,A	0.9868	0.8724	-0.121	0.375	0.1032	0.748
CASC15	rs2181318	21691468	T,C	0.549	0.9168	-0.027	0.085	0.1019	0.7495
CASC15	rs112101248	21683625	T,C	0.9893	0.5442	0.152	0.475	0.1018	0.7496
CASC15	rs78523587	21614133	G,A	0.9764	0.7872	-0.104	0.329	0.1005	0.7512
CASC15	rs80309179	21644884	G,T	0.9894	0.4434	0.212	0.669	0.1005	0.7512
CASC15	rs73737565	21664442	T,G	0.9768	0.5564	-0.109	0.345	0.1001	0.7517
CASC15	rs75629001	21689221	C,T	0.8716	0.708	-0.045	0.145	0.0957	0.757
CASC15	rs76257188	21688091	T,G	0.8712	0.7018	-0.045	0.145	0.0957	0.757
CASC15	rs9466141	21673993	C,T	0.9236	0.9976	-0.045	0.144	0.0956	0.7572

CASC15	rs1973987	21687659	G,T	0.8711	0.6956	-0.045	0.146	0.0945	0.7586
CASC15	rs557872691	21603474	R,D	0.8825	0.5572	-0.05	0.163	0.0939	0.7592
CASC15	rs200447839	21689115	R,D	0.8701	0.7188	-0.043	0.143	0.0926	0.7609
CASC15	rs56050802	21555539	C,T	0.8664	0.6128	-0.041	0.134	0.0912	0.7626
CASC15	rs9466124	21599700	A,G	0.9309	0.9964	-0.048	0.161	0.0909	0.7631
CASC15	rs375807437	21686609	R,D	0.5634	0.7421	-0.028	0.094	0.0903	0.7638
CASC15	rs9466161	21722916	T,C	0.7866	0.8907	0.031	0.102	0.0891	0.7654
CASC15	rs16885105	21598981	C,T	0.9309	0.9869	-0.048	0.161	0.0889	0.7656
CASC15	rs9368326	21590104	A,G	0.8056	0.5535	-0.041	0.139	0.0885	0.7661
CASC15	rs78712702	21700242	T,A	0.9843	0.4664	0.151	0.511	0.0876	0.7673
CASC15	rs1321253	21689813	T,A	0.8723	0.7273	-0.042	0.143	0.0859	0.7694
CASC15	rs9466140	21673293	A,G	0.9286	0.9271	-0.045	0.155	0.0854	0.7701
CASC15	rs11281983	21600430	R,I	0.9309	0.9934	-0.047	0.161	0.0847	0.7711
CASC15	rs77992585	21687331	G,A	0.8724	0.6862	-0.043	0.147	0.0844	0.7715
CASC15	rs12524788	21690518	T,G	0.8725	0.7375	-0.041	0.142	0.0842	0.7717
CASC15	rs6921422	21600523	C,A	0.9308	0.9908	-0.047	0.161	0.084	0.772
CASC15	rs75051132	21589799	T,A	0.98	0.6365	-0.116	0.402	0.0832	0.7731
CASC15	rs75179770	21568397	C,T	0.9582	0.4017	0.089	0.31	0.083	0.7732
CASC15	rs71563995	21676342	A,G	0.9697	0.7188	-0.081	0.284	0.082	0.7745
CASC15	rs9466168	21734750	C,T	0.8215	0.9954	-0.031	0.109	0.0813	0.7755
CASC15	rs201995762	21706002	R,I	0.9873	0.4393	-0.154	0.542	0.0804	0.7768
CASC15	rs1989470	21715067	T,A	0.5732	0.9562	0.023	0.082	0.0799	0.7774
CASC15	rs113889001	21695381	A,C	0.9496	0.5091	-0.067	0.237	0.0797	0.7777
CASC15	rs9466128	21606679	G,T	0.3766	0.995	-0.023	0.084	0.0755	0.7835
CASC15	rs60459153	21570941	G,A	0.9572	0.4198	0.082	0.3	0.0751	0.784
CASC15	rs1972212	21743761	C,T	0.8703	0.5142	-0.048	0.178	0.0743	0.7851
CASC15	rs60048426	21556513	G,A	0.947	0.5576	-0.058	0.214	0.0742	0.7853
CASC15	rs9466125	21601156	A,G	0.9295	0.9574	-0.044	0.162	0.0741	0.7855
CASC15	rs1973986	21687571	A,T	0.5557	0.8895	-0.023	0.086	0.0731	0.7869
CASC15	rs1740838	21632759	G,T	0.3851	0.7571	-0.026	0.096	0.0727	0.7875
CASC15	rs61197304	21570213	G,A	0.9581	0.4232	0.081	0.302	0.0724	0.7879
CASC15	rs148775927	21677832	C,G	0.9884	0.5129	0.16	0.596	0.0716	0.7891
CASC15	rs548416728	21647978	R,D	0.9747	0.6618	0.082	0.309	0.0711	0.7898
CASC15	rs1740847	21620469	C,A	0.6882	0.9889	0.023	0.087	0.0705	0.7905
CASC15	rs149019701	21621670	D,R	0.6874	0.9939	0.023	0.087	0.07	0.7914
CASC15	rs1740848	21620293	G,A	0.6882	0.9886	0.023	0.087	0.07	0.7914
CASC15	rs111405274	21694954	A,G	0.9508	0.5151	-0.064	0.241	0.0697	0.7917
CASC15	rs150435139	21707497	A,G	0.9874	0.4469	-0.143	0.54	0.0697	0.7917
CASC15	rs12191413	21740465	A,T	0.7737	0.8456	0.028	0.106	0.0697	0.7918
CASC15	rs1740845	21621731	G,A	0.6871	0.9929	0.023	0.087	0.0694	0.7922
CASC15	rs1744852	21621724	A,G	0.6871	0.9927	0.023	0.087	0.0693	0.7924
CASC15	rs79337490	21695025	T,C	0.9508	0.5151	-0.063	0.241	0.069	0.7927
CASC15	rs147268567	21621169	D,R	0.6874	0.993	0.023	0.087	0.0689	0.7929
CASC15	rs1740846	21621045	A,G	0.6874	0.9924	0.023	0.087	0.068	0.7943
CASC15	rs6925407	21724100	G,C	0.9884	0.9399	-0.103	0.395	0.0679	0.7944

CASC15	rs144222210	21726206	C,T	0.987	0.7975	-0.105	0.405	0.0676	0.7948
CASC15	rs79002033	21706995	C,T	0.9739	0.6771	-0.08	0.306	0.0674	0.7951
CASC15	rs9460669	21729251	A,G	0.4053	0.9459	-0.022	0.085	0.0667	0.7962
CASC15	rs77155105	21682861	C,G	0.9671	0.7117	-0.076	0.294	0.0663	0.7968
CASC15	rs1555287	21686091	G,A	0.5629	0.8575	-0.022	0.088	0.0643	0.7998
CASC15	rs912025	21716058	C,G	0.8371	0.9358	0.028	0.111	0.0641	0.8001
CASC15	rs542285387	21621459	I,R	0.6862	0.9884	0.022	0.087	0.0634	0.8013
CASC15	rs9466127	21602745	G,A	0.9739	0.9906	0.06	0.24	0.063	0.8018
CASC15	rs9466169	21746181	A,G	0.8659	0.4166	-0.048	0.195	0.0615	0.8041
CASC15	rs77708052	21605375	C,T	0.98	0.7948	-0.089	0.36	0.061	0.805
CASC15	rs11965374	21629739	T,G	0.9653	0.7623	-0.063	0.255	0.06	0.8065
CASC15	rs5874828	21692948	R,D	0.8716	0.725	-0.034	0.142	0.0584	0.8091
CASC15	rs13211544	21619214	C,A	0.8478	0.3133	-0.048	0.198	0.0578	0.8099
CASC15	rs75509154	21670162	A,G	0.9656	0.8408	-0.062	0.261	0.0566	0.812
CASC15	rs116016141	21687920	C,T	0.988	0.5009	-0.123	0.523	0.055	0.8146
CASC15	rs1744856	21625895	G,A	0.6341	0.4717	0.029	0.126	0.0542	0.8159
CASC15	rs76062205	21666427	C,T	0.9438	0.7852	-0.046	0.199	0.0528	0.8182
CASC15	rs7746995	21686064	G,A	0.9859	0.4629	-0.115	0.502	0.0529	0.8182
CASC15	rs80035391	21685357	G,A	0.8973	0.5163	-0.042	0.183	0.0517	0.8201
CASC15	rs116697959	21668594	A,T	0.9652	0.8312	-0.059	0.261	0.0517	0.8202
CASC15	rs147488932	21672276	G,A	0.9657	0.8442	-0.059	0.261	0.0517	0.8202
CASC15	rs80264536	21666345	T,G	0.9437	0.7836	-0.045	0.198	0.0515	0.8205
CASC15	rs16885205	21743291	T,C	0.8644	0.5834	-0.037	0.164	0.0499	0.8233
CASC15	rs9295513	21599766	G,A	0.9746	0.8988	0.059	0.265	0.0497	0.8236
CASC15	rs144306476	21721932	T,G	0.989	0.6617	-0.102	0.46	0.0488	0.8251
CASC15	rs78870816	21665363	C,T	0.9434	0.7804	-0.044	0.199	0.0483	0.826
CASC15	rs9466143	21676688	A,T	0.943	0.8542	-0.038	0.174	0.0473	0.8277
CASC15	rs111374956	21699545	G,C	0.9871	0.5681	-0.082	0.376	0.0471	0.8281
CASC15	rs112117324	21606452	C,T	0.9756	0.8592	-0.055	0.266	0.0424	0.8369
CASC15	rs78584681	21743570	R,D	0.7497	0.6177	-0.024	0.117	0.0417	0.8382
CASC15	rs9466144	21676886	G,T	0.943	0.852	-0.035	0.174	0.0407	0.8401
CASC15	rs548873349	21736947	R,I	0.8405	0.7508	-0.025	0.125	0.0406	0.8404
CASC15	rs139419250	21696871	R,I	0.9475	0.5307	-0.042	0.209	0.0396	0.8422
CASC15	rs113183700	21702524	A,G	0.9869	0.5842	-0.073	0.369	0.0394	0.8426
CASC15	rs116300170	21663541	G,A	0.9641	0.8099	-0.052	0.261	0.039	0.8434
CASC15	rs75159243	21656071	A,T	0.9838	0.4842	-0.09	0.459	0.0388	0.8438
CASC15	rs145778004	21696926	R,I	0.9468	0.5319	-0.041	0.208	0.0385	0.8445
CASC15	rs1744855	21623715	G,A	0.3803	0.9708	-0.016	0.085	0.038	0.8455
CASC15	rs66735249	21686666	D,R	0.551	0.8357	-0.017	0.09	0.0374	0.8467
CASC15	rs6900485	21697055	A,T	0.9471	0.5382	-0.04	0.208	0.0372	0.8472
CASC15	rs6900676	21697176	A,G	0.9471	0.5384	-0.04	0.208	0.0367	0.848
CASC15	rs115061151	21659040	A,C	0.9843	0.4916	-0.088	0.461	0.0366	0.8482
CASC15	rs7759991	21609547	C,T	0.6977	0.9669	0.017	0.089	0.0366	0.8484
CASC15	rs1744848	21609563	C,T	0.6977	0.9669	0.017	0.089	0.0365	0.8485
CASC15	rs113534734	21596349	R,D	0.9404	0.7354	-0.038	0.204	0.0349	0.8518

CASC15	rs78471563	21679073	T,A	0.9895	0.9404	-0.078	0.417	0.0348	0.852
CASC15	rs10080820	21655815	C,G	0.983	0.7561	0.062	0.332	0.0343	0.8531
CASC15	rs16885170	21716554	G,A	0.8229	0.9708	0.019	0.105	0.0337	0.8544
CASC15	rs6918842	21691009	C,T	0.5679	0.9924	-0.015	0.082	0.0321	0.8578
CASC15	rs150555050	21561633	G,A	0.9894	0.5125	0.088	0.49	0.032	0.858
CASC15	rs116104882	21654116	G,C	0.9607	0.7845	-0.046	0.255	0.032	0.8581
CASC15	rs111928162	21706372	T,C	0.9868	0.6035	-0.065	0.362	0.0319	0.8582
CASC15	rs6456441	21658313	A,T	0.9842	0.4898	-0.083	0.462	0.0319	0.8583
CASC15	rs6941630	21679102	C,T	0.5039	0.9783	-0.015	0.087	0.0304	0.8615
CASC15	rs61661762	21588463	A,G	0.9883	0.3149	0.116	0.665	0.0303	0.8617
CASC15	rs71563992	21655825	G,T	0.9888	0.8713	-0.072	0.42	0.0293	0.864
CASC15	rs1744847	21695888	C,T	0.9409	0.4743	0.043	0.252	0.0292	0.8644
CASC15	rs9368325	21577508	C,T	0.8604	0.347	0.033	0.199	0.0277	0.8677
CASC15	rs79853707	21699451	C,T	0.986	0.5502	-0.062	0.37	0.0277	0.8678
CASC15	rs147276150	21701200	A,G	0.9274	0.4176	-0.042	0.257	0.0273	0.8687
CASC15	rs10080752	21655608	C,G	0.9819	0.7225	0.054	0.331	0.0269	0.8697
CASC15	rs77625474	21604127	G,T	0.9308	0.9762	-0.025	0.16	0.0255	0.873
CASC15	rs62403974	21713978	T,C	0.7736	0.9053	-0.016	0.101	0.0251	0.8742
CASC15	rs61215435	21721256	C,T	0.9893	0.7083	0.068	0.431	0.0249	0.8747
CASC15	rs2759362	21681885	G,A	0.5173	0.8653	-0.014	0.093	0.0243	0.8762
CASC15	rs59015153	21574306	T,A	0.9504	0.4712	0.042	0.27	0.0241	0.8767
CASC15	rs139032454	21644326	A,C	0.9757	0.7441	0.045	0.291	0.0238	0.8773
CASC15	rs9466133	21643948	C,T	0.9757	0.7442	0.045	0.291	0.0235	0.8782
CASC15	rs1744861	21627986	A,T	0.3793	0.9676	-0.013	0.085	0.0234	0.8784
CASC15	rs9460656	21643907	A,G	0.9758	0.7442	0.044	0.291	0.023	0.8795
CASC15	rs1617781	21608766	A,G	0.693	0.9819	0.013	0.088	0.0227	0.8801
CASC15	rs1740861	21678006	T,C	0.5038	0.9738	-0.013	0.087	0.0226	0.8805
CASC15	rs112102336	21677692	G,T	0.9639	0.7866	-0.039	0.263	0.0225	0.8807
CASC15	rs116779637	21718919	G,T	0.9886	0.7935	-0.061	0.409	0.0225	0.8808
CASC15	rs1475149	21688142	G,A	0.5662	0.9247	-0.013	0.085	0.0222	0.8817
CASC15	rs1744891	21679835	G,A	0.5058	0.9872	-0.013	0.087	0.022	0.8821
CASC15	rs34987769	21678839	R,I	0.5043	0.9785	-0.013	0.087	0.0213	0.8841
CASC15	rs9348483	21687390	G,T	0.7953	0.87	0.016	0.108	0.0209	0.8851
CASC15	rs540918539	21717464	R,D	0.9882	0.804	-0.057	0.402	0.0198	0.8881
CASC15	rs114266456	21633347	G,A	0.9661	0.7099	-0.038	0.275	0.0191	0.89
CASC15	rs531584400	21574100	R,D	0.9506	0.471	0.037	0.271	0.019	0.8905
CASC15	rs1622043	21609285	A,G	0.6925	0.9814	0.012	0.088	0.0186	0.8916
CASC15	rs150184400	21642793	T,C	0.9758	0.7454	0.04	0.291	0.0185	0.8918
CASC15	rs11961107	21642740	G,A	0.9758	0.7454	0.039	0.291	0.0184	0.8922
CASC15	rs12332790	21642505	C,T	0.9758	0.7456	0.039	0.291	0.0175	0.8946
CASC15	rs35528538	21613493	R,D	0.8281	0.9642	-0.015	0.114	0.017	0.8963
CASC15	rs62404141	21614140	G,A	0.8281	0.9622	-0.015	0.114	0.0166	0.8974
CASC15	rs74492370	21679606	G,A	0.9678	0.8228	-0.033	0.275	0.0149	0.9029
CASC15	rs78971333	21679601	C,T	0.9678	0.8229	-0.033	0.275	0.0148	0.9031
CASC15	rs185494084	21636537	T,C	0.9884	0.4475	0.075	0.635	0.014	0.9058

CASC15	rs11361021	21608909	D,R	0.6928	0.9683	0.01	0.089	0.0125	0.9111
CASC15	rs7772335	21696185	C,T	0.8913	0.4593	-0.02	0.19	0.011	0.9164
CASC15	rs1740855	21680782	C,T	0.5021	0.9879	-0.009	0.088	0.0105	0.9182
CASC15	rs74329629	21583401	G,A	0.9656	0.5138	-0.032	0.316	0.0105	0.9184
CASC15	rs9295515	21641667	C,T	0.976	0.7495	0.029	0.29	0.0102	0.9194
CASC15	rs1744893	21680746	T,C	0.5019	0.987	-0.009	0.089	0.0101	0.9199
CASC15	rs145545902	21735584	D,R	0.6454	0.9341	-0.009	0.089	0.0098	0.9212
CASC15	rs77273443	21620705	G,A	0.984	0.938	-0.029	0.295	0.0096	0.9219
CASC15	rs77354845	21621783	A,G	0.9841	0.9371	-0.029	0.296	0.0095	0.9225
CASC15	rs1740853	21684065	G,A	0.5152	0.7328	0.01	0.102	0.0092	0.9234
CASC15	rs144178641	21622568	C,T	0.984	0.926	-0.028	0.297	0.009	0.9243
CASC15	rs527350470	21640569	R,D	0.9745	0.7043	0.027	0.29	0.0089	0.9249
CASC15	rs9460650	21615371	T,C	0.9841	0.9776	-0.026	0.289	0.0082	0.9279
CASC15	rs9460649	21614884	G,A	0.9843	0.994	-0.026	0.288	0.0081	0.9282
CASC15	rs12333154	21640855	G,A	0.976	0.751	0.026	0.29	0.0078	0.9294
CASC15	rs77518511	21690391	A,G	0.9839	0.4553	-0.042	0.473	0.0079	0.9294
CASC15	rs78825652	21609539	I,R	0.6732	0.9671	0.008	0.086	0.0077	0.9301
CASC15	rs141253251	21567552	G,A	0.9772	0.4147	0.035	0.411	0.007	0.9331
CASC15	rs558880181	21699974	R,D	0.9241	0.5575	-0.015	0.177	0.007	0.9334
CASC15	rs11966675	21640125	G,A	0.9761	0.7522	0.024	0.29	0.0069	0.9338
CASC15	rs114981716	21562453	G,A	0.977	0.3896	0.035	0.423	0.0068	0.9343
CASC15	rs1744896	21681103	A,G	0.5038	0.9407	-0.007	0.091	0.0065	0.9359
CASC15	rs142641808	21677158	C,T	0.9656	0.7625	-0.022	0.279	0.0063	0.937
CASC15	rs574039752	21629819	R,D	0.3639	0.9279	-0.007	0.088	0.0062	0.9375
CASC15	rs1740856	21681223	G,A	0.5041	0.9379	-0.007	0.091	0.0058	0.9391
CASC15	rs13215657	21683714	C,T	0.511	0.7765	0.008	0.099	0.0058	0.9395
CASC15	rs114613272	21721382	C,T	0.984	0.8169	-0.027	0.353	0.0057	0.9401
CASC15	rs10155733	21639594	C,T	0.9761	0.7534	0.022	0.289	0.0056	0.9402
CASC15	rs10155732	21639540	C,T	0.9761	0.7536	0.021	0.289	0.0054	0.9413
CASC15	rs148317817	21638986	G,A	0.9761	0.7532	0.021	0.289	0.0052	0.9422
CASC15	rs147273446	21638982	C,G	0.9761	0.7533	0.021	0.289	0.0051	0.9429
CASC15	rs12333123	21640660	G,A	0.9848	0.7705	0.024	0.353	0.0045	0.9465
CASC15	rs9466129	21610137	C,G	0.9838	0.9565	0.017	0.292	0.0033	0.9541
CASC15	rs77394991	21735578	C,T	0.8447	0.9263	-0.006	0.114	0.0031	0.9556
CASC15	rs2749681	21683792	A,G	0.5085	0.771	0.005	0.099	0.0027	0.9586
CASC15	rs76475505	21611890	T,G	0.9837	0.9609	0.015	0.29	0.0027	0.9587
CASC15	rs138882930	21638300	A,G	0.9761	0.7432	0.015	0.291	0.0026	0.9593
CASC15	rs114977922	21638119	C,G	0.9762	0.7437	0.014	0.291	0.0024	0.9606
CASC15	rs1740849	21619809	G,A	0.3637	0.9622	-0.004	0.087	0.0024	0.9612
CASC15	rs75122426	21580566	T,C	0.985	0.6235	0.019	0.399	0.0024	0.9612
CASC15	rs9466126	21601762	A,C	0.9836	0.9467	0.014	0.306	0.0022	0.9627
CASC15	rs1740857	21681617	T,G	0.5067	0.8693	-0.004	0.095	0.002	0.964
CASC15	rs62406884	21696308	C,T	0.9205	0.414	-0.011	0.242	0.002	0.9642
CASC15	rs80230506	21655914	C,A	0.9607	0.7829	0.011	0.253	0.0019	0.9648
CASC15	rs143636013	21649787	G,C	0.9413	0.7828	0.009	0.2	0.0019	0.9653

CASC15	rs75157802	21678178	A,G	0.9675	0.834	-0.012	0.269	0.0019	0.9656
CASC15	rs5874829	21738740	R,I	0.8074	0.7675	0.005	0.119	0.0018	0.9661
CASC15	rs1744892	21680206	A,G	0.4953	0.9943	-0.004	0.088	0.0017	0.9668
CASC15	rs74323084	21645152	C,G	0.9857	0.7691	-0.017	0.408	0.0017	0.9671
CASC15	rs78474141	21604475	G,T	0.9839	0.9516	0.012	0.297	0.0017	0.9672
CASC15	rs1740858	21682180	C,T	0.507	0.8636	-0.004	0.095	0.0015	0.969
CASC15	rs1740859	21682298	C,T	0.5072	0.8627	-0.004	0.095	0.0015	0.9691
CASC15	rs78378200	21647275	T,C	0.985	0.7319	-0.016	0.408	0.0015	0.9692
CASC15	rs7763048	21681780	G,A	0.4974	0.8635	0.003	0.094	0.0013	0.9712
CASC15	rs4616978	21606129	G,A	0.8111	0.9353	-0.003	0.109	0.001	0.9744
CASC15	rs150235785	21638293	G,A	0.9849	0.7598	0.011	0.356	0.001	0.9746
CASC15	rs397888201	21681363	R,D	0.4982	0.7168	0.003	0.104	0.001	0.9747
CASC15	rs145648458	21636404	T,C	0.9762	0.7475	0.007	0.29	0.0006	0.9798
CASC15	rs1744894	21680886	T,C	0.4962	0.9953	-0.002	0.088	0.0006	0.9805
CASC15	rs7772583	21726279	G,A	0.6306	0.9061	-0.002	0.089	0.0005	0.9827
CASC15	rs12200574	21683353	G,A	0.5092	0.842	0.002	0.095	0.0003	0.9872
CASC15	rs59880840	21556245	G,A	0.9598	0.3138	-0.006	0.362	0.0003	0.9873
CASC15	rs34954830	21632488	R,I	0.9584	0.5469	0.004	0.255	0.0002	0.9875
CASC15	rs149385127	21642947	G,A	0.9849	0.723	-0.006	0.41	0.0002	0.9878
CASC15	rs61157774	21556217	C,T	0.9598	0.3134	-0.005	0.363	0.0002	0.9882
CASC15	rs13219202	21683982	G,A	0.5273	0.7259	-0.002	0.104	0.0002	0.9883
CASC15	rs13219086	21683929	G,C	0.5137	0.7654	0.001	0.1	0.0002	0.9895
CASC15	rs78714768	21631590	C,T	0.9845	0.8158	-0.003	0.331	0.0001	0.9939
CASC15	rs34810044	21718703	R,D	0.7721	0.9072	0	0.099	0	0.9961
CASC15	rs1744895	21680899	G,C	0.4958	1	0	0.088	0	0.9982
CASC15	rs549313068	21638634	R,D	0.9854	0.7268	0	0.421	0	0.9999

SNP association with **CDKAL1** sorted by p-value

CDKAL1	rs79164129	21601917	T,C	0.9855	0.3283	0.747	0.266	7.88	0.004998
CDKAL1	rs2251647	21677746	C,A	0.9512	0.9786	0.231	0.088	6.7986	0.009123
CDKAL1	rs201884896	21657694	D,R	0.9455	0.3238	0.372	0.148	6.3512	0.01173
CDKAL1	rs7772335	21696185	C,T	0.8913	0.4593	-0.208	0.084	6.192	0.01283
CDKAL1	rs66647983	21633079	R,D	0.5368	0.3749	-0.132	0.059	5.0066	0.02525
CDKAL1	rs114455294	21693186	A,T	0.9731	0.5546	-0.287	0.132	4.7061	0.03006
CDKAL1	rs1740849	21619809	G,A	0.3637	0.9622	-0.079	0.038	4.2455	0.03936
CDKAL1	rs571708107	21634038	D,R	0.6795	0.8686	0.084	0.042	4.0624	0.04385
CDKAL1	rs75994264	21745903	C,T	0.9868	0.3369	-0.504	0.251	4.0444	0.04432
CDKAL1	rs60368679	21746134	C,T	0.9868	0.3206	-0.514	0.257	4.0132	0.04515
CDKAL1	rs534329540	21629251	R,I	0.4972	0.5784	-0.097	0.048	3.9977	0.04556
CDKAL1	rs1744855	21623715	G,A	0.3803	0.9708	-0.074	0.037	3.9652	0.04645
CDKAL1	rs1744861	21627986	A,T	0.3793	0.9676	-0.074	0.037	3.9605	0.04658
CDKAL1	rs1740837	21633917	C,T	0.6783	0.9174	0.079	0.04	3.8783	0.04891
CDKAL1	rs1740838	21632759	G,T	0.3851	0.7571	-0.082	0.042	3.7777	0.05194
CDKAL1	rs115733488	21695961	T,C	0.9892	0.5305	-0.357	0.184	3.7584	0.05254
CDKAL1	rs7754702	21696403	T,C	0.9482	0.5267	-0.192	0.099	3.742	0.05306
CDKAL1	rs111405274	21694954	A,G	0.9508	0.5151	-0.204	0.106	3.7005	0.0544

CDKAL1	rs574039752	21629819	R,D	0.3639	0.9279	-0.074	0.039	3.6944	0.0546
CDKAL1	rs79337490	21695025	T,C	0.9508	0.5151	-0.203	0.106	3.6933	0.05463
CDKAL1	rs59493338	21646242	T,A	0.701	0.8468	0.083	0.044	3.6608	0.05571
CDKAL1	rs1744856	21625895	G,A	0.6341	0.4717	-0.106	0.055	3.6402	0.0564
CDKAL1	rs1740833	21646435	A,G	0.6798	0.9621	0.076	0.04	3.6377	0.05649
CDKAL1	rs111232506	21744922	C,T	0.9798	0.3015	-0.385	0.203	3.5898	0.05814
CDKAL1	rs7772692	21696544	A,G	0.9472	0.5318	-0.184	0.097	3.586	0.05827
CDKAL1	rs73378032	21744446	C,A	0.9796	0.3201	-0.371	0.197	3.5722	0.05875
CDKAL1	rs112524196	21743604	G,A	0.9794	0.3214	-0.368	0.195	3.552	0.05947
CDKAL1	rs113889001	21695381	A,C	0.9496	0.5091	-0.196	0.104	3.5145	0.06083
CDKAL1	rs7754895	21696533	T,C	0.9459	0.5325	-0.175	0.096	3.3259	0.0682
CDKAL1	rs9295514	21636585	A,G	0.7107	0.9234	0.079	0.043	3.2987	0.06934
CDKAL1	rs80309179	21644884	G,T	0.9894	0.4434	0.529	0.294	3.2282	0.07238
CDKAL1	rs7756206	21635314	T,G	0.7423	0.8724	0.082	0.046	3.2262	0.07247
CDKAL1	rs1744890	21678059	A,G	0.8017	0.7924	0.09	0.051	3.0734	0.07958
CDKAL1	rs1740866	21664729	T,G	0.7801	0.807	0.089	0.051	3.0389	0.08129
CDKAL1	rs1615194	21648442	T,C	0.7437	0.9296	0.078	0.045	3.0161	0.08244
CDKAL1	rs9466128	21606679	G,T	0.3766	0.995	-0.064	0.037	3.0092	0.08279
CDKAL1	rs6456439	21645743	T,G	0.7125	0.9939	0.072	0.042	2.9768	0.08447
CDKAL1	rs112837708	21696451	G,A	0.9648	0.4436	-0.216	0.126	2.9618	0.08525
CDKAL1	rs1740860	21678055	T,C	0.7991	0.7824	0.089	0.052	2.9566	0.08553
CDKAL1	rs111374956	21699545	G,C	0.9871	0.5681	-0.284	0.165	2.9466	0.08606
CDKAL1	rs10643502	21641556	T,C	0.688	0.853	0.073	0.043	2.9352	0.08667
CDKAL1	rs1740831	21647589	G,A	0.7131	0.9772	0.073	0.042	2.9312	0.08688
CDKAL1	rs113183700	21702524	A,G	0.9869	0.5842	-0.275	0.162	2.8851	0.0894
CDKAL1	rs79853707	21699451	C,T	0.986	0.5502	-0.274	0.162	2.8422	0.09182
CDKAL1	rs1740827	21650969	A,T	0.7378	0.9342	0.074	0.044	2.8192	0.09314
CDKAL1	rs7744188	21694601	T,C	0.9149	0.6416	-0.122	0.072	2.8124	0.09354
CDKAL1	rs111928162	21706372	T,C	0.9868	0.6035	-0.266	0.159	2.8112	0.09361
CDKAL1	rs201513044	21589010	R,D	0.9897	0.4337	-0.407	0.244	2.7762	0.09568
CDKAL1	rs2749682	21641716	A,G	0.6939	0.947	0.069	0.042	2.7725	0.0959
CDKAL1	rs11438117	21660100	R,I	0.4211	0.4868	-0.087	0.053	2.7368	0.09806
CDKAL1	rs6912946	21659978	A,T	0.8051	0.821	0.086	0.052	2.7023	0.1002
CDKAL1	rs36027263	21648358	I,R	0.7129	0.8819	0.073	0.045	2.683	0.1014
CDKAL1	rs9460655	21641564	C,T	0.6926	0.8571	0.07	0.043	2.6622	0.1028
CDKAL1	rs1744865	21631078	A,C	0.6628	0.9515	0.064	0.04	2.6454	0.1038
CDKAL1	rs1740839	21629928	G,A	0.7114	0.9827	0.065	0.04	2.5917	0.1074
CDKAL1	rs35612989	21663201	R,I	0.4311	0.4511	-0.086	0.054	2.5293	0.1117
CDKAL1	rs11753001	21726506	T,C	0.9147	0.5112	0.15	0.094	2.5271	0.1119
CDKAL1	rs1744875	21648534	C,A	0.4998	0.4732	-0.088	0.055	2.5156	0.1127
CDKAL1	rs141673420	21695454	T,C	0.9835	0.3745	-0.386	0.243	2.514	0.1128
CDKAL1	rs1744863	21629887	A,G	0.6612	0.9532	0.062	0.039	2.4839	0.115
CDKAL1	rs1744862	21629881	C,A	0.6612	0.9531	0.062	0.039	2.4831	0.1151
CDKAL1	rs147268567	21621169	D,R	0.6874	0.993	0.059	0.038	2.4194	0.1198
CDKAL1	rs149019701	21621670	D,R	0.6874	0.9939	0.059	0.038	2.4202	0.1198

CDKAL1	rs1740846	21621045	A,G	0.6874	0.9924	0.059	0.038	2.4183	0.1199
CDKAL1	rs1744849	21612949	A,G	0.7238	1	0.063	0.04	2.4192	0.1199
CDKAL1	rs1740845	21621731	G,A	0.6871	0.9929	0.059	0.038	2.412	0.1204
CDKAL1	rs1744852	21621724	A,G	0.6871	0.9927	0.059	0.038	2.412	0.1204
CDKAL1	rs1744884	21663449	G,A	0.7593	0.786	0.076	0.049	2.3919	0.122
CDKAL1	rs542285387	21621459	I,R	0.6862	0.9884	0.059	0.038	2.3688	0.1238
CDKAL1	rs1740830	21648615	C,T	0.867	0.7367	0.097	0.063	2.3655	0.124
CDKAL1	rs1740867	21663105	C,T	0.7594	0.7883	0.075	0.049	2.361	0.1244
CDKAL1	rs1740847	21620469	C,A	0.6882	0.9889	0.058	0.038	2.3372	0.1263
CDKAL1	rs1740848	21620293	G,A	0.6882	0.9886	0.058	0.038	2.3369	0.1263
CDKAL1	rs150555050	21561633	G,A	0.9894	0.5125	-0.327	0.215	2.3109	0.1285
CDKAL1	rs7739585	21632295	A,C	0.6764	0.9279	0.062	0.041	2.3003	0.1293
CDKAL1	rs1744854	21623686	C,T	0.6725	0.9882	0.057	0.038	2.2783	0.1312
CDKAL1	rs1744853	21623386	A,G	0.6725	0.9887	0.057	0.038	2.2747	0.1315
CDKAL1	rs1740842	21623181	G,A	0.6726	0.9885	0.057	0.038	2.2737	0.1316
CDKAL1	rs1740844	21622871	C,T	0.6724	0.9911	0.057	0.038	2.2613	0.1326
CDKAL1	rs1740868	21660205	G,T	0.6798	0.8487	0.062	0.041	2.2593	0.1328
CDKAL1	rs60908846	21646239	I,R	0.758	0.8675	0.07	0.046	2.2594	0.1328
CDKAL1	rs1740832	21646725	A,G	0.756	0.938	0.068	0.045	2.2492	0.1337
CDKAL1	rs201389513	21635326	D,R	0.7672	0.8696	0.07	0.047	2.2447	0.1341
CDKAL1	rs12528435	21562732	G,A	0.8866	0.355	0.141	0.094	2.2408	0.1344
CDKAL1	rs1744876	21651003	T,C	0.8157	0.9901	0.071	0.047	2.2403	0.1345
CDKAL1	rs7739607	21632345	G,C	0.6821	0.9067	0.062	0.042	2.2379	0.1347
CDKAL1	rs6939472	21661019	G,C	0.7866	0.7792	0.077	0.052	2.2339	0.135
CDKAL1	rs9466127	21602745	G,A	0.9739	0.9906	0.157	0.105	2.2194	0.1363
CDKAL1	rs1744885	21670816	A,G	0.4476	0.9803	-0.06	0.04	2.216	0.1366
CDKAL1	rs529643978	21641557	D,R	0.7285	0.854	0.067	0.045	2.2109	0.137
CDKAL1	rs370328808	21641504	D,R	0.7285	0.8536	0.067	0.045	2.2102	0.1371
CDKAL1	rs9460651	21622531	G,T	0.672	0.9951	0.056	0.038	2.2096	0.1372
CDKAL1	rs113411153	21641562	D,R	0.7285	0.8541	0.067	0.045	2.2089	0.1372
CDKAL1	rs561593549	21641496	C,T	0.7285	0.8534	0.067	0.045	2.2093	0.1372
CDKAL1	rs562290828	21641555	D,R	0.7285	0.8538	0.067	0.045	2.2086	0.1372
CDKAL1	rs35857450	21622415	D,R	0.6703	0.8902	0.059	0.04	2.2035	0.1377
CDKAL1	rs1740865	21668071	C,A	0.5314	0.8949	-0.061	0.041	2.1924	0.1387
CDKAL1	rs7751661	21621850	G,A	0.6705	1	0.055	0.038	2.1839	0.1395
CDKAL1	rs2759362	21681885	G,A	0.5173	0.8653	-0.06	0.041	2.1555	0.1421
CDKAL1	rs72317305	21669872	R,D	0.5156	0.9662	-0.058	0.04	2.1432	0.1432
CDKAL1	rs34987769	21678839	R,I	0.5043	0.9785	-0.056	0.038	2.141	0.1434
CDKAL1	rs1744886	21671092	A,T	0.5151	0.9725	-0.058	0.039	2.1336	0.1441
CDKAL1	rs9295513	21599766	G,A	0.9746	0.8988	0.169	0.116	2.1153	0.1458
CDKAL1	rs11327351	21623643	D,R	0.6711	0.9267	0.058	0.04	2.1083	0.1465
CDKAL1	rs1744870	21638485	A,C	0.734	0.9006	0.065	0.045	2.0845	0.1488
CDKAL1	rs201453060	21648925	R,I	0.5221	0.4872	-0.079	0.055	2.0696	0.1503
CDKAL1	rs9466129	21610137	C,G	0.9838	0.9565	0.184	0.128	2.0616	0.151
CDKAL1	rs75122426	21580566	T,C	0.985	0.6235	0.252	0.175	2.062	0.151

CDKAL1	rs530522537	21694259	R,D	0.9305	0.6164	-0.122	0.085	2.0589	0.1513
CDKAL1	rs6941630	21679102	C,T	0.5039	0.9783	-0.055	0.038	2.0511	0.1521
CDKAL1	rs76475505	21611890	T,G	0.9837	0.9609	0.182	0.127	2.0502	0.1522
CDKAL1	rs1740834	21645207	C,T	0.7742	0.9378	0.066	0.046	2.0466	0.1525
CDKAL1	rs1744866	21631188	C,T	0.9885	0.3807	0.395	0.277	2.0415	0.1531
CDKAL1	rs1740861	21678006	T,C	0.5038	0.9738	-0.054	0.038	2.0322	0.154
CDKAL1	rs9466126	21601762	A,C	0.9836	0.9467	0.191	0.134	2.0244	0.1548
CDKAL1	rs35605844	21674022	D,R	0.6185	0.9309	0.057	0.04	2.0097	0.1563
CDKAL1	rs78474141	21604475	G,T	0.9839	0.9516	0.185	0.131	2.0029	0.157
CDKAL1	rs1740841	21627053	G,T	0.6852	0.9798	0.055	0.039	1.9993	0.1574
CDKAL1	rs1744891	21679835	G,A	0.5058	0.9872	-0.054	0.038	1.9961	0.1577
CDKAL1	rs1744858	21626190	T,C	0.6849	0.9807	0.055	0.039	1.9961	0.1577
CDKAL1	rs1744859	21626395	T,C	0.685	0.9803	0.055	0.039	1.995	0.1578
CDKAL1	rs2749683	21635327	T,G	0.767	0.8784	0.066	0.047	1.9669	0.1608
CDKAL1	rs56175726	21566498	G,A	0.9534	0.3503	0.195	0.139	1.966	0.1609
CDKAL1	rs6456438	21632215	G,A	0.7029	0.9547	0.057	0.041	1.9649	0.161
CDKAL1	rs73737558	21577723	A,G	0.9837	0.4293	0.285	0.204	1.9626	0.1612
CDKAL1	rs59880840	21556245	G,A	0.9598	0.3138	0.223	0.159	1.9618	0.1613
CDKAL1	rs61157774	21556217	C,T	0.9598	0.3134	0.223	0.159	1.9612	0.1614
CDKAL1	rs75179770	21568397	C,T	0.9582	0.4017	0.19	0.136	1.9451	0.1631
CDKAL1	rs77991965	21694060	G,A	0.9358	0.6372	-0.123	0.088	1.9267	0.1651
CDKAL1	rs1740835	21637725	G,A	0.7724	0.8961	0.065	0.047	1.9162	0.1663
CDKAL1	rs1744867	21634171	T,C	0.7381	0.8918	0.062	0.045	1.8779	0.1706
CDKAL1	rs60459153	21570941	G,A	0.9572	0.4198	0.181	0.132	1.8718	0.1713
CDKAL1	rs1744873	21638871	C,T	0.7506	0.8981	0.062	0.046	1.8678	0.1717
CDKAL1	rs1744871	21638566	C,T	0.7505	0.8974	0.062	0.046	1.8617	0.1724
CDKAL1	rs1744872	21638599	C,T	0.7505	0.8975	0.062	0.046	1.8621	0.1724
CDKAL1	rs61197304	21570213	G,A	0.9581	0.4232	0.181	0.133	1.8594	0.1727
CDKAL1	rs76714354	21572464	A,G	0.9805	0.3806	0.269	0.197	1.859	0.1727
CDKAL1	rs10080752	21655608	C,G	0.9819	0.7225	0.197	0.145	1.842	0.1747
CDKAL1	rs150345835	21568080	R,D	0.983	0.3784	0.287	0.212	1.8292	0.1762
CDKAL1	rs1740863	21670641	C,T	0.6246	0.9994	0.052	0.039	1.823	0.177
CDKAL1	rs10080820	21655815	C,G	0.983	0.7561	0.197	0.146	1.8217	0.1771
CDKAL1	rs1740864	21668282	G,A	0.6096	0.9094	0.054	0.04	1.8188	0.1775
CDKAL1	rs1620996	21602552	C,T	0.8959	0.8139	0.087	0.065	1.8147	0.1779
CDKAL1	rs1740843	21623041	G,A	0.6876	0.9919	0.053	0.039	1.7973	0.18
CDKAL1	rs111442391	21730723	C,T	0.9726	0.3086	0.254	0.19	1.7815	0.182
CDKAL1	rs1744874	21640902	T,C	0.7492	0.9047	0.06	0.045	1.7751	0.1828
CDKAL1	rs11330136	21629471	D,R	0.7	0.9778	0.053	0.04	1.7531	0.1855
CDKAL1	rs1740852	21608979	T,C	0.895	0.9932	0.077	0.058	1.7421	0.1869
CDKAL1	rs1740850	21618925	C,G	0.7147	0.9839	0.053	0.04	1.7284	0.1886
CDKAL1	rs5874825	21634749	I,R	0.7699	0.8924	0.061	0.047	1.721	0.1896
CDKAL1	rs57761609	21683420	D,R	0.6127	0.8292	0.055	0.042	1.7183	0.1899
CDKAL1	rs9460649	21614884	G,A	0.9843	0.994	0.166	0.127	1.7083	0.1912
CDKAL1	rs9460650	21615371	T,C	0.9841	0.9776	0.166	0.127	1.7041	0.1918

CDKAL1	rs113815998	21709365	G,T	0.9608	0.7324	-0.13	0.1	1.6992	0.1924
CDKAL1	rs1744864	21630684	C,T	0.7008	1	0.051	0.04	1.6935	0.1931
CDKAL1	rs1740836	21634644	G,A	0.7705	0.8935	0.061	0.047	1.6942	0.1931
CDKAL1	rs1740840	21627378	G,A	0.7156	0.9808	0.052	0.04	1.6917	0.1934
CDKAL1	rs74926222	21568994	C,T	0.9816	0.3776	0.265	0.204	1.688	0.1939
CDKAL1	rs77273443	21620705	G,A	0.984	0.938	0.168	0.13	1.6747	0.1956
CDKAL1	rs77354845	21621783	A,G	0.9841	0.9371	0.168	0.13	1.6682	0.1965
CDKAL1	rs144178641	21622568	C,T	0.984	0.926	0.168	0.131	1.6622	0.1973
CDKAL1	rs1744850	21618916	G,T	0.7128	0.9828	0.051	0.04	1.66	0.1976
CDKAL1	rs9366406	21617668	T,A	0.7397	0.9296	0.054	0.042	1.6573	0.198
CDKAL1	rs1744851	21619810	T,C	0.7153	0.9819	0.052	0.04	1.6522	0.1987
CDKAL1	rs1740854	21680732	A,C	0.6112	0.9639	0.05	0.039	1.6433	0.1999
CDKAL1	rs36093392	21601725	D,R	0.7127	0.8142	0.055	0.043	1.6432	0.1999
CDKAL1	rs35001920	21676726	R,D	0.4775	0.9497	-0.051	0.04	1.6314	0.2015
CDKAL1	rs59015153	21574306	T,A	0.9504	0.4712	0.151	0.118	1.6312	0.2015
CDKAL1	rs531584400	21574100	R,D	0.9506	0.471	0.152	0.119	1.6302	0.2017
CDKAL1	rs1740851	21616268	T,C	0.7152	0.9852	0.051	0.04	1.6272	0.2021
CDKAL1	rs4327678	21619771	T,C	0.7132	0.9834	0.05	0.04	1.5857	0.2079
CDKAL1	rs1744860	21627046	A,G	0.6998	0.9875	0.05	0.04	1.585	0.208
CDKAL1	rs1744857	21626067	T,C	0.6993	0.9886	0.05	0.04	1.5806	0.2087
CDKAL1	rs1744848	21609563	C,T	0.6977	0.9669	0.049	0.039	1.5792	0.2089
CDKAL1	rs7759991	21609547	C,T	0.6977	0.9669	0.049	0.039	1.5789	0.2089
CDKAL1	rs2749684	21676485	C,T	0.6168	0.9872	0.048	0.038	1.5637	0.2111
CDKAL1	rs147276150	21701200	A,G	0.9274	0.4176	0.141	0.113	1.5576	0.212
CDKAL1	rs1744847	21695888	C,T	0.9409	0.4743	-0.138	0.111	1.5488	0.2133
CDKAL1	rs11361021	21608909	D,R	0.6928	0.9683	0.048	0.039	1.5485	0.2134
CDKAL1	rs1622043	21609285	A,G	0.6925	0.9814	0.048	0.039	1.5378	0.2149
CDKAL1	rs7742225	21685474	G,A	0.827	0.7132	0.07	0.056	1.5315	0.2159
CDKAL1	rs145648458	21636404	T,C	0.9762	0.7475	0.157	0.127	1.5189	0.2178
CDKAL1	rs1744889	21676795	A,G	0.6165	0.9936	0.047	0.038	1.5163	0.2182
CDKAL1	rs62406884	21696308	C,T	0.9205	0.414	0.131	0.106	1.5095	0.2192
CDKAL1	rs1744878	21652230	A,C	0.8076	0.9338	0.06	0.049	1.5058	0.2198
CDKAL1	rs7741780	21685460	A,G	0.8336	0.732	0.069	0.056	1.5036	0.2201
CDKAL1	rs9466145	21677060	A,C	0.6171	1	0.046	0.038	1.5015	0.2204
CDKAL1	rs78714768	21631590	C,T	0.9845	0.8158	0.178	0.145	1.4995	0.2207
CDKAL1	rs397888201	21681363	R,D	0.4982	0.7168	-0.056	0.046	1.4984	0.2209
CDKAL1	rs111355896	21649454	I,R	0.7486	0.9074	0.055	0.045	1.4953	0.2214
CDKAL1	rs149699118	21633666	D,R	0.7515	0.8935	0.055	0.045	1.4886	0.2224
CDKAL1	rs941990	21658881	A,G	0.6778	0.8561	0.049	0.041	1.4882	0.2225
CDKAL1	rs1740826	21651528	G,A	0.6892	0.9762	0.047	0.039	1.4777	0.2241
CDKAL1	rs6456437	21615443	T,C	0.7388	0.9506	0.05	0.041	1.4743	0.2247
CDKAL1	rs4710983	21734202	C,T	0.767	0.9462	-0.051	0.042	1.4743	0.2247
CDKAL1	rs1617781	21608766	A,G	0.693	0.9819	0.047	0.039	1.4698	0.2254
CDKAL1	rs142355149	21692662	A,C	0.9804	0.36	-0.276	0.228	1.4699	0.2254
CDKAL1	rs1744877	21651554	T,C	0.6891	0.9768	0.047	0.039	1.4652	0.2261

CDKAL1	rs7755254	21699892	C,T	0.9389	0.6037	-0.1	0.083	1.4538	0.2279
CDKAL1	rs7775517	21699901	T,G	0.9389	0.6039	-0.1	0.083	1.4541	0.2279
CDKAL1	rs79381952	21699489	T,C	0.9398	0.6026	-0.099	0.084	1.4002	0.2367
CDKAL1	rs60309622	21698465	C,T	0.9414	0.5673	-0.103	0.087	1.3983	0.237
CDKAL1	rs10946462	21651830	C,T	0.6894	0.9828	0.045	0.039	1.3889	0.2386
CDKAL1	rs112047759	21699028	T,C	0.9395	0.5892	-0.099	0.084	1.3876	0.2388
CDKAL1	rs112103466	21699063	T,C	0.9395	0.5894	-0.099	0.084	1.3875	0.2388
CDKAL1	rs58699714	21698897	C,T	0.9395	0.5888	-0.099	0.084	1.3842	0.2394
CDKAL1	rs6929483	21698094	T,C	0.9394	0.583	-0.099	0.084	1.3792	0.2402
CDKAL1	rs6929294	21698041	T,G	0.9394	0.5831	-0.099	0.085	1.378	0.2404
CDKAL1	rs1744887	21674378	G,T	0.9679	0.3275	-0.196	0.168	1.3679	0.2422
CDKAL1	rs6906888	21697966	G,A	0.9391	0.5729	-0.099	0.085	1.3642	0.2428
CDKAL1	rs10946466	21727456	C,A	0.9298	0.9928	-0.084	0.072	1.363	0.243
CDKAL1	rs6928871	21697812	T,C	0.9391	0.571	-0.099	0.085	1.3629	0.243
CDKAL1	rs6929045	21697861	T,C	0.9391	0.5712	-0.099	0.085	1.3628	0.2431
CDKAL1	rs6906248	21697889	A,G	0.9391	0.5714	-0.099	0.085	1.3616	0.2433
CDKAL1	rs76144443	21697748	A,G	0.9391	0.5709	-0.099	0.085	1.3605	0.2434
CDKAL1	rs16885205	21743291	T,C	0.8644	0.5834	0.084	0.072	1.359	0.2437
CDKAL1	rs147273446	21638982	C,G	0.9761	0.7533	0.148	0.127	1.3538	0.2446
CDKAL1	rs148317817	21638986	G,A	0.9761	0.7532	0.148	0.127	1.3536	0.2447
CDKAL1	rs2759360	21653532	A,G	0.7648	0.8809	0.053	0.046	1.3511	0.2451
CDKAL1	rs10155733	21639594	C,T	0.9761	0.7534	0.147	0.127	1.3441	0.2463
CDKAL1	rs1744881	21657548	G,A	0.8047	0.8556	0.059	0.051	1.3436	0.2464
CDKAL1	rs10155732	21639540	C,T	0.9761	0.7536	0.147	0.127	1.3438	0.2464
CDKAL1	rs12189901	21726940	G,A	0.9308	0.9638	-0.085	0.074	1.3407	0.2469
CDKAL1	rs11966675	21640125	G,A	0.9761	0.7522	0.147	0.127	1.3392	0.2472
CDKAL1	rs114977922	21638119	C,G	0.9762	0.7437	0.148	0.128	1.3378	0.2474
CDKAL1	rs138882930	21638300	A,G	0.9761	0.7432	0.148	0.128	1.3324	0.2484
CDKAL1	rs527350470	21640569	R,D	0.9745	0.7043	0.147	0.128	1.3325	0.2484
CDKAL1	rs12333154	21640855	G,A	0.976	0.751	0.147	0.127	1.3275	0.2492
CDKAL1	rs9295515	21641667	C,T	0.976	0.7495	0.146	0.127	1.3062	0.2531
CDKAL1	rs11757166	21652990	C,T	0.6883	0.9879	0.044	0.038	1.301	0.254
CDKAL1	rs35829440	21655243	R,I	0.602	0.3134	-0.076	0.067	1.2998	0.2542
CDKAL1	rs9358450	21740882	A,G	0.746	0.858	-0.049	0.043	1.2954	0.2551
CDKAL1	rs2180418	21690172	A,G	0.8397	0.9885	0.056	0.049	1.279	0.2581
CDKAL1	rs1972212	21743761	C,T	0.8703	0.5142	0.088	0.078	1.2686	0.26
CDKAL1	rs558880181	21699974	R,D	0.9241	0.5575	-0.087	0.078	1.2645	0.2608
CDKAL1	rs1744896	21681103	A,G	0.5038	0.9407	-0.045	0.04	1.2485	0.2638
CDKAL1	rs11433545	21672216	R,I	0.5947	0.6034	-0.057	0.051	1.2479	0.264
CDKAL1	rs1744879	21652741	A,G	0.6892	0.9997	0.043	0.038	1.2467	0.2642
CDKAL1	rs75327712	21728829	G,A	0.9295	0.9778	-0.081	0.072	1.2439	0.2647
CDKAL1	rs12332790	21642505	C,T	0.9758	0.7456	0.142	0.128	1.2435	0.2648
CDKAL1	rs75935729	21733252	C,A	0.9872	0.709	-0.2	0.179	1.2431	0.2649
CDKAL1	rs68015368	21645499	I,R	0.8315	0.7435	0.063	0.056	1.2423	0.265
CDKAL1	rs1740857	21681617	T,G	0.5067	0.8693	-0.046	0.042	1.2402	0.2654

CDKAL1	rs1740856	21681223	G,A	0.5041	0.9379	-0.044	0.04	1.2401	0.2655
CDKAL1	rs74831068	21693978	T,C	0.8189	0.778	-0.059	0.053	1.2398	0.2655
CDKAL1	rs11961107	21642740	G,A	0.9758	0.7454	0.142	0.128	1.2391	0.2656
CDKAL1	rs147596047	21733524	R,D	0.9872	0.709	-0.2	0.179	1.2392	0.2656
CDKAL1	rs77258728	21734254	G,A	0.9872	0.709	-0.2	0.179	1.2387	0.2657
CDKAL1	rs150184400	21642793	T,C	0.9758	0.7454	0.142	0.128	1.2379	0.2659
CDKAL1	rs1744893	21680746	T,C	0.5019	0.987	-0.043	0.039	1.2372	0.266
CDKAL1	rs1740859	21682298	C,T	0.5072	0.8627	-0.046	0.042	1.2356	0.2663
CDKAL1	rs1740855	21680782	C,T	0.5021	0.9879	-0.043	0.039	1.2347	0.2665
CDKAL1	rs1740858	21682180	C,T	0.507	0.8636	-0.046	0.042	1.2344	0.2665
CDKAL1	rs149746556	21731479	R,D	0.9872	0.7098	-0.198	0.179	1.2254	0.2683
CDKAL1	rs78584490	21732145	C,T	0.9872	0.7096	-0.198	0.179	1.2256	0.2683
CDKAL1	rs570404489	21689796	R,D	0.7798	0.3015	0.086	0.077	1.2239	0.2686
CDKAL1	rs9460656	21643907	A,G	0.9758	0.7442	0.141	0.128	1.2113	0.2711
CDKAL1	rs9466133	21643948	C,T	0.9757	0.7442	0.141	0.128	1.2103	0.2713
CDKAL1	rs9466169	21746181	A,G	0.8659	0.4166	0.094	0.086	1.2071	0.2719
CDKAL1	rs139032454	21644326	A,C	0.9757	0.7441	0.14	0.128	1.2006	0.2732
CDKAL1	rs1744894	21680886	T,C	0.4962	0.9953	-0.042	0.039	1.1902	0.2753
CDKAL1	rs1744880	21653046	A,G	0.6868	0.9845	0.042	0.038	1.1881	0.2757
CDKAL1	rs112101248	21683625	T,C	0.9893	0.5442	0.227	0.209	1.1855	0.2762
CDKAL1	rs1744895	21680899	G,C	0.4958	1	-0.042	0.039	1.1818	0.277
CDKAL1	rs78937245	21738761	C,T	0.9864	0.6447	-0.197	0.182	1.1749	0.2784
CDKAL1	rs182063949	21738643	T,A	0.9864	0.6453	-0.197	0.182	1.1736	0.2787
CDKAL1	rs7763048	21681780	G,A	0.4974	0.8635	-0.045	0.041	1.1548	0.2825
CDKAL1	rs9466153	21700048	C,T	0.9445	0.5887	-0.095	0.088	1.1546	0.2826
CDKAL1	rs12333123	21640660	G,A	0.9848	0.7705	0.166	0.155	1.148	0.284
CDKAL1	rs145952396	21677173	C,T	0.9854	0.5637	-0.205	0.192	1.1418	0.2853
CDKAL1	rs150235785	21638293	G,A	0.9849	0.7598	0.167	0.156	1.1389	0.2859
CDKAL1	rs1744892	21680206	A,G	0.4953	0.9943	-0.041	0.039	1.13	0.2878
CDKAL1	rs146516474	21554348	C,T	0.9266	0.8769	-0.071	0.067	1.1258	0.2887
CDKAL1	rs67418443	21554442	C,T	0.9266	0.876	-0.071	0.067	1.1251	0.2888
CDKAL1	rs9466164	21723538	A,G	0.8284	0.9494	0.055	0.052	1.1093	0.2922
CDKAL1	rs530398575	21733586	R,I	0.8629	0.4934	-0.075	0.073	1.0627	0.3026
CDKAL1	rs78825652	21609539	I,R	0.6732	0.9671	0.039	0.038	1.055	0.3044
CDKAL1	rs545611803	21688770	R,I	0.8158	0.533	-0.063	0.063	1.0052	0.3161
CDKAL1	rs4712623	21688978	C,T	0.638	0.848	0.039	0.04	0.9787	0.3225
CDKAL1	rs12525631	21730840	C,T	0.8794	0.9968	-0.054	0.055	0.9773	0.3229
CDKAL1	rs138380902	21731187	R,D	0.9079	0.9299	-0.062	0.063	0.9686	0.325
CDKAL1	rs139419250	21696871	R,I	0.9475	0.5307	-0.09	0.092	0.9491	0.3299
CDKAL1	rs6900676	21697176	A,G	0.9471	0.5384	-0.089	0.091	0.9449	0.331
CDKAL1	rs6900485	21697055	A,T	0.9471	0.5382	-0.089	0.091	0.9429	0.3315
CDKAL1	rs9460670	21731138	C,A	0.877	0.9736	-0.053	0.055	0.9254	0.3361
CDKAL1	rs562901644	21554922	R,D	0.9157	0.7168	-0.067	0.07	0.9111	0.3398
CDKAL1	rs145778004	21696926	R,I	0.9468	0.5319	-0.087	0.092	0.91	0.3401
CDKAL1	rs5874829	21738740	R,I	0.8074	0.7675	0.05	0.053	0.8966	0.3437

CDKAL1	rs146150526	21575243	T,C	0.9263	0.5346	0.082	0.089	0.8484	0.357
CDKAL1	rs548416728	21647978	R,D	0.9747	0.6618	0.125	0.136	0.8421	0.3588
CDKAL1	rs113196987	21575419	A,G	0.9232	0.5162	0.08	0.089	0.8159	0.3664
CDKAL1	rs2144867	21689100	C,T	0.9874	0.3281	-0.245	0.271	0.8157	0.3665
CDKAL1	rs1744882	21657561	T,G	0.7003	0.8473	0.038	0.043	0.8141	0.3669
CDKAL1	rs548873349	21736947	R,I	0.8405	0.7508	-0.05	0.055	0.8138	0.367
CDKAL1	rs73374447	21636151	C,T	0.9753	0.3	-0.174	0.194	0.8073	0.3689
CDKAL1	rs7772337	21726278	C,T	0.8256	0.9612	0.046	0.051	0.8048	0.3697
CDKAL1	rs71563995	21676342	A,G	0.9697	0.7188	-0.112	0.125	0.8007	0.3709
CDKAL1	rs547687648	21729656	R,I	0.7892	0.8727	-0.042	0.047	0.8004	0.371
CDKAL1	rs2749688	21658487	G,C	0.6992	0.8356	0.038	0.043	0.787	0.375
CDKAL1	rs80177376	21744978	C,T	0.9048	0.3545	-0.09	0.102	0.7871	0.375
CDKAL1	rs7739235	21609345	A,T	0.9799	0.962	-0.114	0.128	0.7832	0.3762
CDKAL1	rs199690993	21646009	R,D	0.9762	0.3058	-0.172	0.196	0.7747	0.3788
CDKAL1	rs117061311	21683546	G,A	0.9853	0.4203	-0.195	0.222	0.7695	0.3804
CDKAL1	rs557872691	21603474	R,D	0.8825	0.5572	0.062	0.072	0.7569	0.3843
CDKAL1	rs1740828	21649085	A,G	0.5436	0.4642	0.046	0.054	0.7404	0.3895
CDKAL1	rs34954830	21632488	R,I	0.9584	0.5469	0.097	0.112	0.7394	0.3899
CDKAL1	rs111684701	21608562	C,T	0.9809	0.9509	-0.114	0.133	0.7314	0.3924
CDKAL1	rs2749681	21683792	A,G	0.5085	0.771	-0.037	0.044	0.7287	0.3933
CDKAL1	rs112892524	21608321	C,T	0.981	0.9464	-0.113	0.133	0.7284	0.3934
CDKAL1	rs7740142	21609635	G,A	0.9809	0.955	-0.113	0.132	0.7274	0.3937
CDKAL1	rs13215657	21683714	C,T	0.511	0.7765	-0.037	0.044	0.7168	0.3972
CDKAL1	rs1740853	21684065	G,A	0.5152	0.7328	-0.038	0.045	0.7164	0.3973
CDKAL1	rs113064891	21606092	R,I	0.9811	0.9369	-0.113	0.134	0.7143	0.398
CDKAL1	rs13219086	21683929	G,C	0.5137	0.7654	-0.037	0.044	0.712	0.3988
CDKAL1	rs9466168	21734750	C,T	0.8215	0.9954	0.04	0.048	0.7097	0.3996
CDKAL1	rs12200574	21683353	G,A	0.5092	0.842	-0.035	0.042	0.7063	0.4007
CDKAL1	rs145825998	21695945	T,G	0.9899	0.5601	-0.196	0.235	0.6983	0.4034
CDKAL1	rs115395409	21696639	C,T	0.99	0.5674	-0.196	0.234	0.6978	0.4035
CDKAL1	rs138691949	21653247	A,T	0.9812	0.5466	-0.145	0.175	0.6897	0.4063
CDKAL1	rs62403977	21725337	C,T	0.8232	0.9705	0.042	0.05	0.6889	0.4065
CDKAL1	rs73737557	21570448	T,C	0.9333	0.4619	0.084	0.101	0.6882	0.4068
CDKAL1	rs13220312	21671856	A,G	0.9734	0.7398	-0.107	0.129	0.6877	0.4069
CDKAL1	rs60048426	21556513	G,A	0.947	0.5576	-0.078	0.094	0.6866	0.4073
CDKAL1	rs71563994	21668435	T,C	0.9731	0.7255	-0.107	0.129	0.6849	0.4079
CDKAL1	rs35922627	21667988	A,T	0.973	0.7238	-0.107	0.129	0.683	0.4086
CDKAL1	rs190176895	21629550	C,A	0.9877	0.7487	0.167	0.203	0.6803	0.4095
CDKAL1	rs35210528	21667781	T,C	0.9732	0.7254	-0.107	0.13	0.6784	0.4101
CDKAL1	rs77625474	21604127	G,T	0.9308	0.9762	0.058	0.07	0.6781	0.4102
CDKAL1	rs11965374	21629739	T,G	0.9653	0.7623	0.092	0.112	0.671	0.4127
CDKAL1	rs62404141	21614140	G,A	0.8281	0.9622	0.041	0.05	0.6647	0.4149
CDKAL1	rs35528538	21613493	R,D	0.8281	0.9642	0.041	0.05	0.6644	0.415
CDKAL1	rs9466125	21601156	A,G	0.9295	0.9574	0.058	0.071	0.6609	0.4162
CDKAL1	rs9358442	21573637	G,A	0.7034	0.4581	0.047	0.058	0.6551	0.4183

CDKAL1	rs77394991	21735578	C,T	0.8447	0.9263	-0.04	0.05	0.6476	0.421
CDKAL1	rs201995762	21706002	R,I	0.9873	0.4393	-0.191	0.238	0.6434	0.4225
CDKAL1	rs150435139	21707497	A,G	0.9874	0.4469	-0.19	0.237	0.6403	0.4236
CDKAL1	rs13211544	21619214	C,A	0.8478	0.3133	-0.069	0.087	0.6393	0.424
CDKAL1	rs4712625	21699342	G,A	0.8761	0.9937	-0.045	0.056	0.638	0.4244
CDKAL1	rs9348484	21731460	C,G	0.93	0.9619	-0.058	0.073	0.629	0.4277
CDKAL1	rs116779637	21718919	G,T	0.9886	0.7935	0.143	0.18	0.629	0.4277
CDKAL1	rs9358448	21731736	G,A	0.9305	0.9625	-0.058	0.073	0.6232	0.4299
CDKAL1	rs111411936	21626246	G,A	0.9877	0.7672	0.159	0.201	0.6227	0.43
CDKAL1	rs112039884	21729100	C,T	0.9274	0.9676	-0.056	0.072	0.6153	0.4328
CDKAL1	rs147960757	21606492	G,T	0.9772	0.8203	0.113	0.144	0.6142	0.4332
CDKAL1	rs79693897	21695822	R,D	0.6627	0.717	0.036	0.046	0.6119	0.4341
CDKAL1	rs146269383	21601263	G,A	0.9772	0.8168	0.112	0.144	0.6107	0.4345
CDKAL1	rs117971178	21674146	C,T	0.9852	0.5427	-0.15	0.192	0.6074	0.4358
CDKAL1	rs6921422	21600523	C,A	0.9308	0.9908	0.055	0.071	0.6001	0.4386
CDKAL1	rs11281983	21600430	R,I	0.9309	0.9934	0.055	0.071	0.5983	0.4392
CDKAL1	rs13219202	21683982	G,A	0.5273	0.7259	-0.035	0.046	0.5977	0.4394
CDKAL1	rs189742413	21683505	C,T	0.984	0.4632	-0.135	0.175	0.5929	0.4413
CDKAL1	rs9466124	21599700	A,G	0.9309	0.9964	0.054	0.071	0.589	0.4428
CDKAL1	rs540918539	21717464	R,D	0.9882	0.804	0.136	0.177	0.5872	0.4435
CDKAL1	rs16885105	21598981	C,T	0.9309	0.9869	0.054	0.071	0.5862	0.4439
CDKAL1	rs9466158	21717309	T,C	0.7892	0.921	0.035	0.046	0.5822	0.4455
CDKAL1	rs79949484	21728966	G,A	0.9319	0.8819	-0.059	0.077	0.5773	0.4474
CDKAL1	rs113975012	21712110	A,T	0.9843	0.5172	-0.158	0.21	0.5619	0.4535
CDKAL1	rs7762989	21624153	C,T	0.9883	0.8214	0.151	0.202	0.5574	0.4553
CDKAL1	rs78523587	21614133	G,A	0.9764	0.7872	0.106	0.144	0.5338	0.465
CDKAL1	rs9460666	21726380	G,A	0.9296	0.3512	0.083	0.113	0.5319	0.4658
CDKAL1	rs9466163	21723532	C,T	0.809	0.9768	0.035	0.048	0.5307	0.4663
CDKAL1	rs74785728	21611723	G,A	0.9819	0.9332	-0.1	0.138	0.5226	0.4697
CDKAL1	rs6925679	21724480	A,G	0.8086	1	0.034	0.048	0.5193	0.4711
CDKAL1	rs9368325	21577508	C,T	0.8604	0.347	0.063	0.088	0.5191	0.4712
CDKAL1	rs9460665	21724144	G,A	0.8084	1	0.034	0.048	0.5175	0.4719
CDKAL1	rs7770799	21553258	A,C	0.9337	0.9722	-0.05	0.069	0.5153	0.4729
CDKAL1	rs9466159	21721313	A,G	0.8227	0.9323	0.037	0.052	0.5105	0.4749
CDKAL1	rs6924745	21693837	C,T	0.8421	0.8514	0.039	0.054	0.5045	0.4775
CDKAL1	rs9466165	21724322	T,C	0.8089	0.9953	0.034	0.048	0.5032	0.4781
CDKAL1	rs112395953	21727909	A,C	0.885	0.9741	-0.04	0.056	0.5009	0.4791
CDKAL1	rs79846403	21723244	C,T	0.8348	0.8403	0.039	0.055	0.494	0.4822
CDKAL1	rs141253251	21567552	G,A	0.9772	0.4147	0.126	0.181	0.489	0.4844
CDKAL1	rs9460664	21723621	G,A	0.8102	0.9858	0.034	0.048	0.4865	0.4855
CDKAL1	rs12191413	21740465	A,T	0.7737	0.8456	-0.032	0.047	0.4845	0.4864
CDKAL1	rs114981716	21562453	G,A	0.977	0.3896	0.129	0.186	0.4837	0.4867
CDKAL1	rs149455365	21553549	R,D	0.9357	0.9431	-0.049	0.07	0.4793	0.4888
CDKAL1	rs6926491	21724670	G,A	0.8091	0.9926	0.033	0.048	0.4741	0.4911
CDKAL1	rs79002033	21706995	C,T	0.9739	0.6771	-0.093	0.135	0.4727	0.4918

CDKAL1	rs9460659	21696569	G,C	0.6689	0.7266	0.031	0.046	0.4712	0.4924
CDKAL1	rs116216476	21700308	T,C	0.9886	0.6467	0.131	0.191	0.4706	0.4927
CDKAL1	rs61215435	21721256	C,T	0.9893	0.7083	0.129	0.189	0.4651	0.4952
CDKAL1	rs147045541	21675767	C,T	0.9834	0.576	-0.119	0.175	0.4642	0.4957
CDKAL1	rs9460668	21727929	C,G	0.8216	0.9705	0.034	0.05	0.4592	0.498
CDKAL1	rs7760462	21730877	G,C	0.4165	0.9846	0.024	0.036	0.4564	0.4993
CDKAL1	rs7739666	21718260	T,C	0.9818	0.939	0.084	0.124	0.4553	0.4998
CDKAL1	rs34197291	21611277	R,D	0.7729	0.7368	0.035	0.051	0.452	0.5014
CDKAL1	rs149768565	21719941	R,D	0.9754	0.6872	0.084	0.125	0.4516	0.5016
CDKAL1	rs7757467	21718123	C,T	0.9813	0.9676	0.081	0.122	0.446	0.5042
CDKAL1	rs9348480	21617782	G,A	0.7922	0.9408	0.03	0.045	0.4442	0.5051
CDKAL1	rs76501983	21631411	G,A	0.9854	0.8228	0.116	0.174	0.4425	0.5059
CDKAL1	rs1740825	21653689	T,C	0.7477	0.8767	0.03	0.045	0.4413	0.5065
CDKAL1	rs7757232	21717818	G,A	0.9819	0.9404	0.082	0.124	0.4323	0.5108
CDKAL1	rs4710982	21733835	G,C	0.8653	0.9343	-0.035	0.054	0.4315	0.5112
CDKAL1	rs80035391	21685357	G,A	0.8973	0.5163	-0.053	0.081	0.4303	0.5119
CDKAL1	rs150997476	21663402	A,T	0.9893	0.6383	0.155	0.238	0.4276	0.5132
CDKAL1	rs7753199	21717706	G,A	0.9819	0.9391	0.081	0.124	0.4271	0.5134
CDKAL1	rs7738506	21702690	A,T	0.9888	0.6716	0.124	0.19	0.4265	0.5137
CDKAL1	rs9350368	21562144	A,G	0.6823	0.3726	0.039	0.059	0.4255	0.5142
CDKAL1	rs528217121	21702677	R,D	0.9888	0.6785	0.123	0.189	0.4222	0.5159
CDKAL1	rs143393812	21633911	C,T	0.9816	0.5752	-0.112	0.172	0.4195	0.5172
CDKAL1	rs2328627	21714362	G,A	0.9889	0.782	0.118	0.183	0.4178	0.5181
CDKAL1	rs6933476	21720156	G,A	0.9819	0.8936	0.082	0.126	0.417	0.5184
CDKAL1	rs7772163	21726011	G,C	0.8088	0.9857	0.031	0.048	0.4154	0.5193
CDKAL1	rs116598598	21654884	A,T	0.983	0.5411	-0.118	0.186	0.4071	0.5234
CDKAL1	rs2876599	21714103	C,G	0.9889	0.7808	0.116	0.183	0.4037	0.5252
CDKAL1	rs78098947	21713740	C,T	0.989	0.7788	0.116	0.183	0.4015	0.5263
CDKAL1	rs140066406	21728813	R,I	0.8701	0.9744	-0.034	0.053	0.3982	0.528
CDKAL1	rs9460671	21731289	G,C	0.41	0.9868	0.023	0.036	0.3857	0.5345
CDKAL1	rs71563992	21655825	G,T	0.9888	0.8713	-0.114	0.185	0.3776	0.5389
CDKAL1	rs78870816	21665363	C,T	0.9434	0.7804	0.053	0.087	0.3703	0.5428
CDKAL1	rs6456443	21716233	G,A	0.9818	0.9202	0.076	0.125	0.3692	0.5435
CDKAL1	rs77518511	21690391	A,G	0.9839	0.4553	0.126	0.208	0.3659	0.5452
CDKAL1	rs1555529	21691704	A,G	0.7822	0.9942	0.026	0.044	0.3612	0.5479
CDKAL1	rs76062205	21666427	C,T	0.9438	0.7852	0.052	0.087	0.3606	0.5481
CDKAL1	rs80264536	21666345	T,G	0.9437	0.7836	0.052	0.087	0.3553	0.5511
CDKAL1	rs78502915	21591248	G,T	0.9567	0.6759	0.063	0.108	0.3477	0.5554
CDKAL1	rs76428292	21629756	C,A	0.974	0.7112	0.085	0.144	0.3468	0.5559
CDKAL1	rs111928481	21648542	T,A	0.9738	0.8848	0.068	0.116	0.3452	0.5568
CDKAL1	rs9358441	21565339	T,C	0.7025	0.3571	0.037	0.063	0.3451	0.5569
CDKAL1	rs34810044	21718703	R,D	0.7721	0.9072	0.025	0.043	0.3383	0.5608
CDKAL1	rs117804382	21656810	C,T	0.9855	0.5625	-0.112	0.193	0.3363	0.562
CDKAL1	rs78265086	21720541	T,C	0.9826	0.8636	0.074	0.129	0.3299	0.5657
CDKAL1	rs113989215	21665766	A,C	0.9131	0.855	0.036	0.063	0.3278	0.5669

CDKAL1	rs543173991	21629474	T,A	0.9884	0.7664	0.118	0.206	0.3277	0.567
CDKAL1	rs112243204	21582142	T,C	0.9498	0.5703	0.058	0.101	0.3265	0.5677
CDKAL1	rs9368332	21731094	G,A	0.4156	0.9974	0.02	0.036	0.3257	0.5682
CDKAL1	rs140643662	21664544	G,A	0.9855	0.5752	-0.109	0.191	0.3255	0.5683
CDKAL1	rs116878740	21665291	A,G	0.9855	0.5757	-0.109	0.191	0.3252	0.5685
CDKAL1	rs117537289	21661595	C,T	0.9854	0.5671	-0.109	0.191	0.3225	0.5701
CDKAL1	rs9368326	21590104	A,G	0.8056	0.5535	0.035	0.061	0.319	0.5722
CDKAL1	rs12206842	21734489	A,T	0.9372	1	-0.042	0.075	0.3178	0.5729
CDKAL1	rs9358449	21732383	G,A	0.937	0.9915	-0.042	0.075	0.3176	0.573
CDKAL1	rs7451817	21735497	A,C	0.9341	0.9124	-0.043	0.077	0.3121	0.5764
CDKAL1	rs4616978	21606129	G,A	0.8111	0.9353	0.027	0.048	0.3098	0.5778
CDKAL1	rs4712633	21738249	A,G	0.8598	1	-0.029	0.051	0.3081	0.5788
CDKAL1	rs7739775	21727465	C,T	0.87	0.9769	-0.029	0.053	0.3026	0.5823
CDKAL1	rs77401992	21579608	A,G	0.9474	0.5364	0.056	0.102	0.3012	0.5831
CDKAL1	rs74329629	21583401	G,A	0.9656	0.5138	0.076	0.139	0.3012	0.5832
CDKAL1	rs9460658	21684193	C,T	0.9792	0.347	-0.12	0.218	0.3007	0.5835
CDKAL1	rs78471563	21679073	T,A	0.9895	0.9404	-0.1	0.183	0.3001	0.5838
CDKAL1	rs75228175	21579117	C,T	0.9479	0.5358	0.056	0.102	0.2994	0.5843
CDKAL1	rs112117324	21606452	C,T	0.9756	0.8592	-0.064	0.117	0.2986	0.5848
CDKAL1	rs79169915	21607457	G,A	0.9882	0.848	-0.106	0.198	0.2888	0.591
CDKAL1	rs7740486	21714797	A,G	0.9818	0.8978	0.068	0.126	0.2881	0.5915
CDKAL1	rs549313068	21638634	R,D	0.9854	0.7268	0.099	0.185	0.2837	0.5943
CDKAL1	rs58919806	21570038	G,A	0.8921	0.397	0.043	0.081	0.2804	0.5964
CDKAL1	rs73376077	21720504	C,T	0.7969	0.9025	0.026	0.048	0.2797	0.5969
CDKAL1	rs60336041	21714991	A,C	0.9818	0.9007	0.066	0.126	0.2782	0.5979
CDKAL1	rs7744078	21727822	G,C	0.4006	0.9944	0.019	0.037	0.2758	0.5994
CDKAL1	rs7764209	21727755	A,T	0.4006	0.9953	0.019	0.037	0.2756	0.5996
CDKAL1	rs7740084	21727531	A,G	0.4005	0.9983	0.019	0.036	0.2732	0.6012
CDKAL1	rs571632729	21726382	R,I	0.896	0.3926	-0.048	0.093	0.2717	0.6022
CDKAL1	rs1322883	21720796	A,G	0.5867	0.9164	0.019	0.037	0.2692	0.6039
CDKAL1	rs12528487	21735354	A,G	0.8629	0.9338	-0.028	0.054	0.2691	0.604
CDKAL1	rs143636013	21649787	G,C	0.9413	0.7828	0.045	0.088	0.2655	0.6063
CDKAL1	rs142641808	21677158	C,T	0.9656	0.7625	-0.063	0.123	0.2652	0.6066
CDKAL1	rs111412021	21606278	T,C	0.9882	0.8163	-0.105	0.205	0.2616	0.609
CDKAL1	rs56004640	21716262	A,G	0.8113	0.9096	0.026	0.05	0.2614	0.6092
CDKAL1	rs78030412	21631511	T,C	0.9731	0.7032	0.072	0.142	0.259	0.6108
CDKAL1	rs77708052	21605375	C,T	0.98	0.7948	0.079	0.158	0.2521	0.6156
CDKAL1	rs5874828	21692948	R,D	0.8716	0.725	-0.031	0.063	0.2481	0.6184
CDKAL1	rs185494084	21636537	T,C	0.9884	0.4475	-0.138	0.279	0.2461	0.6198
CDKAL1	rs11968460	21718604	G,A	0.8056	0.9024	0.025	0.05	0.2452	0.6205
CDKAL1	rs75051132	21589799	T,A	0.98	0.6365	0.087	0.177	0.2448	0.6208
CDKAL1	rs74323084	21645152	C,G	0.9857	0.7691	0.088	0.179	0.2428	0.6222
CDKAL1	rs79232286	21689146	G,A	0.8483	0.7428	-0.029	0.059	0.2422	0.6226
CDKAL1	rs7746995	21686064	G,A	0.9859	0.4629	0.107	0.221	0.2358	0.6272
CDKAL1	rs149385127	21642947	G,A	0.9849	0.723	0.087	0.18	0.2351	0.6278

CDKAL1	rs75629001	21689221	C,T	0.8716	0.708	-0.03	0.064	0.2276	0.6333
CDKAL1	rs6933506	21673857	T,C	0.9717	0.871	0.052	0.11	0.2254	0.6349
CDKAL1	rs1973987	21687659	G,T	0.8711	0.6956	-0.03	0.064	0.2249	0.6353
CDKAL1	rs78686872	21566786	T,C	0.9087	0.4686	0.038	0.08	0.2239	0.6361
CDKAL1	rs78225455	21566785	T,A	0.9087	0.4686	0.038	0.08	0.2237	0.6363
CDKAL1	rs76257188	21688091	T,G	0.8712	0.7018	-0.03	0.064	0.2217	0.6378
CDKAL1	rs59187080	21668625	G,A	0.966	0.7875	0.048	0.103	0.2205	0.6387
CDKAL1	rs111526226	21567385	T,C	0.968	0.4673	-0.064	0.137	0.219	0.6398
CDKAL1	rs200447839	21689115	R,D	0.8701	0.7188	-0.029	0.063	0.2172	0.6412
CDKAL1	rs12524788	21690518	T,G	0.8725	0.7375	-0.029	0.062	0.2165	0.6417
CDKAL1	rs1321253	21689813	T,A	0.8723	0.7273	-0.029	0.063	0.2153	0.6426
CDKAL1	rs73392011	21569756	C,T	0.9671	0.445	-0.064	0.138	0.215	0.6429
CDKAL1	rs141765572	21679089	G,T	0.9877	0.5484	-0.109	0.234	0.2147	0.6431
CDKAL1	rs4712624	21693152	A,G	0.843	0.7383	-0.027	0.058	0.2146	0.6432
CDKAL1	rs79753782	21594201	C,A	0.9506	0.6778	0.047	0.102	0.2144	0.6433
CDKAL1	rs77992585	21687331	G,A	0.8724	0.6862	-0.03	0.065	0.2136	0.644
CDKAL1	rs114266456	21633347	G,A	0.9661	0.7099	0.056	0.121	0.2125	0.6448
CDKAL1	rs4712632	21732137	G,A	0.4138	0.9644	0.016	0.036	0.2069	0.6492
CDKAL1	rs76401928	21586715	G,A	0.9419	0.6097	0.043	0.094	0.2067	0.6494
CDKAL1	rs16885189	21729682	G,A	0.8667	0.9973	-0.024	0.052	0.2064	0.6496
CDKAL1	rs111404042	21565201	G,A	0.9548	0.5207	-0.053	0.117	0.2063	0.6497
CDKAL1	rs71657670	21613526	R,D	0.9864	0.77	-0.088	0.193	0.2055	0.6503
CDKAL1	rs116300465	21738509	T,G	0.8638	0.9326	-0.025	0.054	0.2055	0.6504
CDKAL1	rs113455272	21616778	T,C	0.9824	0.9392	0.066	0.147	0.2044	0.6512
CDKAL1	rs4710981	21732702	G,C	0.4166	0.9635	0.016	0.036	0.2015	0.6535
CDKAL1	rs78378200	21647275	T,C	0.985	0.7319	0.08	0.179	0.2012	0.6538
CDKAL1	rs111503674	21585461	T,C	0.941	0.5927	0.042	0.095	0.2004	0.6544
CDKAL1	rs4712631	21710896	C,T	0.586	0.9993	-0.016	0.036	0.1979	0.6565
CDKAL1	rs78584681	21743570	R,D	0.7497	0.6177	0.023	0.051	0.1967	0.6574
CDKAL1	rs78529444	21722481	A,G	0.9876	0.8222	-0.08	0.18	0.1962	0.6578
CDKAL1	rs111479343	21561070	G,T	0.9092	0.4694	0.035	0.08	0.1954	0.6584
CDKAL1	rs139581361	21722128	G,A	0.9879	0.8119	0.081	0.184	0.1949	0.6589
CDKAL1	rs113932195	21562740	T,C	0.9088	0.469	0.035	0.08	0.1938	0.6598
CDKAL1	rs7772258	21686985	T,C	0.8466	0.7118	-0.026	0.06	0.19	0.6629
CDKAL1	rs79883278	21720741	C,T	0.9819	0.8353	0.056	0.128	0.19	0.6629
CDKAL1	rs115731554	21723090	C,T	0.9877	0.8291	-0.078	0.18	0.1858	0.6664
CDKAL1	rs13362741	21700158	A,C	0.6707	0.8039	0.019	0.044	0.1803	0.6712
CDKAL1	rs7761575	21701475	C,T	0.672	0.8148	0.018	0.043	0.1783	0.6728
CDKAL1	rs7761844	21701456	G,A	0.6722	0.8149	0.018	0.043	0.1782	0.6729
CDKAL1	rs79521243	21581049	T,C	0.9405	0.5684	0.04	0.096	0.1769	0.674
CDKAL1	rs141898580	21709985	C,T	0.9816	0.8379	0.054	0.128	0.1767	0.6742
CDKAL1	rs112153247	21701183	C,T	0.6716	0.8121	0.018	0.043	0.1746	0.6761
CDKAL1	rs59730691	21701056	C,T	0.6717	0.8117	0.018	0.043	0.1744	0.6762
CDKAL1	rs62406887	21701319	C,T	0.6717	0.8135	0.018	0.043	0.1729	0.6776
CDKAL1	rs7762010	21701594	G,A	0.6719	0.8177	0.018	0.043	0.1697	0.6804

CDKAL1	rs111357910	21723888	A,G	0.988	0.8511	-0.074	0.18	0.169	0.681
CDKAL1	rs7761595	21701550	A,G	0.6721	0.8165	0.018	0.043	0.1688	0.6812
CDKAL1	rs73376030	21700390	T,G	0.6688	0.8019	0.018	0.044	0.1658	0.6839
CDKAL1	rs78345714	21734098	T,C	0.9849	0.6839	-0.062	0.153	0.1642	0.6854
CDKAL1	rs561618338	21639342	R,I	0.9855	0.4795	-0.087	0.216	0.162	0.6873
CDKAL1	rs58572340	21555505	T,A	0.8729	0.5846	-0.025	0.062	0.1614	0.6879
CDKAL1	rs4712627	21701892	C,T	0.6719	0.828	0.017	0.043	0.161	0.6882
CDKAL1	rs36024930	21605537	R,D	0.7795	0.8154	0.019	0.048	0.1599	0.6893
CDKAL1	rs4712629	21702103	A,G	0.6716	0.83	0.017	0.043	0.1579	0.6911
CDKAL1	rs7754999	21705723	C,T	0.6691	0.8543	0.017	0.042	0.1569	0.692
CDKAL1	rs4712630	21702161	T,C	0.6716	0.8305	0.017	0.043	0.1568	0.6921
CDKAL1	rs114613272	21721382	C,T	0.984	0.8169	0.061	0.155	0.1569	0.6921
CDKAL1	rs149555362	21726144	T,C	0.9879	0.8456	-0.071	0.18	0.1563	0.6925
CDKAL1	rs62403969	21702409	A,C	0.6716	0.8327	0.017	0.043	0.1559	0.6929
CDKAL1	rs12664833	21614978	T,G	0.8033	0.9552	0.018	0.047	0.1554	0.6934
CDKAL1	rs77155105	21682861	C,G	0.9671	0.7117	-0.051	0.129	0.1534	0.6953
CDKAL1	rs115900264	21738499	A,G	0.8705	0.965	-0.021	0.054	0.1511	0.6975
CDKAL1	rs11751574	21702901	G,A	0.6716	0.8382	0.017	0.043	0.1508	0.6978
CDKAL1	rs16885175	21726770	A,G	0.8585	0.8892	-0.021	0.054	0.1489	0.6996
CDKAL1	rs57442902	21704602	C,T	0.6719	0.8494	0.016	0.042	0.1488	0.6997
CDKAL1	rs6927945	21703341	T,C	0.672	0.841	0.016	0.043	0.1478	0.7007
CDKAL1	rs9466156	21711491	C,T	0.5874	0.9998	-0.014	0.036	0.1473	0.7011
CDKAL1	rs2328624	21703736	G,C	0.672	0.8448	0.016	0.043	0.1466	0.7018
CDKAL1	rs6933751	21704108	T,C	0.672	0.8471	0.016	0.042	0.1458	0.7026
CDKAL1	rs2328626	21703885	C,T	0.6717	0.8448	0.016	0.043	0.1455	0.7029
CDKAL1	rs2328625	21703880	T,C	0.6717	0.8446	0.016	0.043	0.1453	0.703
CDKAL1	rs9466155	21707222	G,A	0.6726	0.8766	0.016	0.042	0.1438	0.7045
CDKAL1	rs150766348	21706424	R,D	0.6681	0.8073	0.016	0.043	0.1425	0.7058
CDKAL1	rs116016141	21687920	C,T	0.988	0.5009	-0.086	0.23	0.1401	0.7081
CDKAL1	rs10636012	21727515	I,R	0.4062	0.9929	0.014	0.036	0.1401	0.7082
CDKAL1	rs116239840	21722970	A,C	0.8218	0.9134	0.019	0.051	0.1401	0.7082
CDKAL1	rs11380611	21703686	R,I	0.6704	0.84	0.016	0.043	0.1384	0.7099
CDKAL1	rs141007801	21722788	R,I	0.8394	0.8482	0.021	0.056	0.1375	0.7108
CDKAL1	rs2180419	21728317	A,G	0.4028	0.9843	0.013	0.036	0.1359	0.7124
CDKAL1	rs112653724	21576915	G,A	0.9388	0.5234	0.036	0.098	0.1358	0.7125
CDKAL1	rs1830667	21728089	G,T	0.4027	0.9868	0.013	0.036	0.1356	0.7127
CDKAL1	rs1407655	21727902	G,A	0.4028	0.9882	0.013	0.036	0.1352	0.7131
CDKAL1	rs11284636	21591706	R,D	0.9858	0.4225	0.078	0.218	0.1292	0.7193
CDKAL1	rs9348483	21687390	G,T	0.7953	0.87	0.017	0.048	0.127	0.7216
CDKAL1	rs35578300	21741886	R,D	0.7077	0.8309	-0.015	0.042	0.1267	0.7219
CDKAL1	rs4712628	21702070	C,G	0.6704	0.828	0.015	0.043	0.1253	0.7234
CDKAL1	rs73737568	21667546	A,G	0.9719	0.8789	0.039	0.109	0.1248	0.7239
CDKAL1	rs62403971	21702621	T,C	0.6704	0.8339	0.015	0.043	0.1221	0.7268
CDKAL1	rs112617138	21576898	A,G	0.938	0.5193	0.034	0.098	0.1201	0.7289
CDKAL1	rs145907846	21729085	G,A	0.9868	0.8724	0.056	0.165	0.1171	0.7322

CDKAL1	rs9460660	21709294	T,C	0.616	0.9365	-0.013	0.038	0.1166	0.7327
CDKAL1	rs75062640	21722533	A,G	0.9823	0.8162	-0.05	0.147	0.1161	0.7333
CDKAL1	rs111887738	21616944	T,C	0.9828	0.9369	0.051	0.149	0.1159	0.7335
CDKAL1	rs56050802	21555539	C,T	0.8664	0.6128	-0.02	0.059	0.1156	0.7339
CDKAL1	rs144306476	21721932	T,G	0.989	0.6617	-0.068	0.202	0.1145	0.735
CDKAL1	rs55686449	21702505	T,C	0.6687	0.8289	0.014	0.043	0.1121	0.7378
CDKAL1	rs76934110	21669629	G,A	0.9626	0.7982	-0.038	0.114	0.1103	0.7398
CDKAL1	rs75157802	21678178	A,G	0.9675	0.834	-0.038	0.118	0.1039	0.7473
CDKAL1	rs75509154	21670162	A,G	0.9656	0.8408	-0.037	0.115	0.1034	0.7478
CDKAL1	rs147488932	21672276	G,A	0.9657	0.8442	-0.037	0.115	0.1028	0.7485
CDKAL1	rs78971333	21679601	C,T	0.9678	0.8229	-0.038	0.121	0.1006	0.7511
CDKAL1	rs74492370	21679606	G,A	0.9678	0.8228	-0.038	0.121	0.1004	0.7514
CDKAL1	rs116697959	21668594	A,T	0.9652	0.8312	-0.036	0.115	0.0994	0.7526
CDKAL1	rs57792403	21738640	R,D	0.4364	0.9838	0.011	0.036	0.0978	0.7545
CDKAL1	rs9466161	21722916	T,C	0.7866	0.8907	0.014	0.045	0.0964	0.7561
CDKAL1	rs7772583	21726279	G,A	0.6306	0.9061	0.012	0.039	0.0913	0.7625
CDKAL1	rs6925407	21724100	G,C	0.9884	0.9399	0.052	0.173	0.0886	0.7659
CDKAL1	rs116300170	21663541	G,A	0.9641	0.8099	-0.033	0.115	0.0849	0.7708
CDKAL1	rs61661762	21588463	A,G	0.9883	0.3149	0.084	0.292	0.0826	0.7738
CDKAL1	rs546083928	21596246	R,I	0.9877	0.6818	-0.063	0.223	0.0798	0.7776
CDKAL1	rs840982	21740321	T,C	0.4378	0.9967	0.01	0.036	0.0778	0.7803
CDKAL1	rs112102336	21677692	G,T	0.9639	0.7866	-0.032	0.115	0.0776	0.7805
CDKAL1	rs138387168	21716280	C,T	0.9765	0.7359	-0.038	0.136	0.0763	0.7824
CDKAL1	rs9460657	21660051	C,T	0.8938	0.8161	-0.016	0.06	0.0759	0.7829
CDKAL1	rs840981	21740238	G,A	0.4381	1	0.01	0.036	0.0752	0.7839
CDKAL1	rs12374633	21654974	G,A	0.9698	0.9337	0.028	0.102	0.0739	0.7857
CDKAL1	rs7759495	21706044	G,A	0.6142	0.9046	-0.01	0.039	0.0733	0.7866
CDKAL1	rs80349490	21615188	T,C	0.9491	0.4807	-0.035	0.129	0.0732	0.7867
CDKAL1	rs141900910	21647244	C,T	0.9864	0.543	-0.057	0.212	0.0725	0.7877
CDKAL1	rs146017644	21640727	C,T	0.9833	0.5529	-0.051	0.189	0.0719	0.7886
CDKAL1	rs1989470	21715067	T,A	0.5732	0.9562	-0.01	0.036	0.0704	0.7907
CDKAL1	rs73737565	21664442	T,G	0.9768	0.5564	-0.04	0.152	0.07	0.7913
CDKAL1	rs6941897	21671979	C,A	0.9897	0.6097	0.055	0.209	0.0698	0.7917
CDKAL1	rs117538721	21647180	T,C	0.986	0.5245	-0.056	0.212	0.0689	0.7929
CDKAL1	rs148261621	21712086	R,I	0.7162	0.7178	0.013	0.048	0.0673	0.7953
CDKAL1	rs7746424	21685920	C,T	0.9762	0.4981	-0.043	0.166	0.0669	0.7959
CDKAL1	rs116187696	21639646	G,A	0.9868	0.5351	-0.055	0.213	0.0658	0.7976
CDKAL1	rs6934807	21653677	A,G	0.9709	0.9814	0.026	0.102	0.0648	0.799
CDKAL1	rs9460669	21729251	A,G	0.4053	0.9459	0.009	0.037	0.0619	0.8035
CDKAL1	rs1853345	21742346	T,C	0.73	0.9808	-0.01	0.038	0.0611	0.8047
CDKAL1	rs76944255	21582643	G,A	0.981	0.4687	0.045	0.186	0.0594	0.8074
CDKAL1	rs62406886	21701119	T,C	0.6631	0.8167	0.011	0.043	0.0593	0.8075
CDKAL1	rs4712626	21701841	G,A	0.6545	0.8328	0.01	0.042	0.0581	0.8095
CDKAL1	rs57690989	21652353	T,G	0.9629	0.903	-0.022	0.091	0.0578	0.8101
CDKAL1	rs9466136	21653258	C,T	0.905	0.8569	0.014	0.061	0.057	0.8113

CDKAL1	rs72175369	21738076	R,D	0.9214	0.781	-0.018	0.076	0.0561	0.8128
CDKAL1	rs6904795	21703099	A,G	0.6649	0.8486	0.01	0.042	0.0534	0.8173
CDKAL1	rs73374488	21666188	G,A	0.9707	0.8902	0.024	0.107	0.0517	0.8201
CDKAL1	rs12183824	21726382	G,A	0.8184	0.3562	-0.018	0.077	0.0516	0.8203
CDKAL1	rs145960980	21729330	D,R	0.4093	0.9758	0.008	0.036	0.0505	0.8221
CDKAL1	rs148775927	21677832	C,G	0.9884	0.5129	-0.059	0.262	0.0505	0.8222
CDKAL1	rs6456442	21698279	T,C	0.5821	0.821	-0.009	0.039	0.0504	0.8224
CDKAL1	rs80061387	21579793	T,C	0.9808	0.4585	0.041	0.187	0.0494	0.8241
CDKAL1	rs143796183	21587351	G,A	0.9851	0.3168	-0.069	0.312	0.0493	0.8242
CDKAL1	rs7746292	21685907	A,G	0.9762	0.4817	-0.037	0.168	0.048	0.8266
CDKAL1	rs116104882	21654116	G,C	0.9607	0.7845	-0.023	0.112	0.0434	0.835
CDKAL1	rs9466154	21706155	G,T	0.6423	0.8816	-0.008	0.04	0.0413	0.839
CDKAL1	rs111482236	21588455	T,C	0.9537	0.6111	0.023	0.111	0.0411	0.8394
CDKAL1	rs144222210	21726206	C,T	0.987	0.7975	-0.036	0.178	0.0402	0.8411
CDKAL1	rs9350367	21555608	C,T	0.6563	0.3839	0.012	0.058	0.0399	0.8416
CDKAL1	rs375807437	21686609	R,D	0.5634	0.7421	-0.008	0.041	0.0393	0.8429
CDKAL1	rs59759742	21707319	T,G	0.6009	0.9285	-0.007	0.037	0.0376	0.8463
CDKAL1	rs200822534	21701029	R,D	0.6386	0.6957	0.009	0.046	0.0373	0.8468
CDKAL1	rs369470901	21707320	R,I	0.6014	0.9269	-0.007	0.037	0.0373	0.8469
CDKAL1	rs9366408	21742607	G,A	0.9822	0.9856	0.022	0.113	0.0368	0.8479
CDKAL1	rs1555287	21686091	G,A	0.5629	0.8575	-0.007	0.039	0.0367	0.8481
CDKAL1	rs73392015	21591766	C,T	0.9671	0.4088	-0.031	0.163	0.0366	0.8483
CDKAL1	rs7738599	21631790	A,G	0.9365	0.4203	0.022	0.12	0.0344	0.8529
CDKAL1	rs140423760	21646093	C,A	0.9884	0.552	-0.041	0.222	0.0342	0.8532
CDKAL1	rs6925119	21701083	G,A	0.6412	0.822	-0.008	0.042	0.0341	0.8535
CDKAL1	rs62403974	21713978	T,C	0.7736	0.9053	-0.008	0.044	0.0337	0.8543
CDKAL1	rs9295516	21673560	C,T	0.9483	0.8605	0.014	0.079	0.0303	0.8619
CDKAL1	rs7773111	21696531	G,A	0.6146	0.751	-0.007	0.043	0.0296	0.8633
CDKAL1	rs183503583	21638847	G,A	0.9885	0.5492	-0.038	0.223	0.0296	0.8635
CDKAL1	rs76857610	21685543	G,T	0.9888	0.4734	-0.041	0.241	0.0284	0.8661
CDKAL1	rs840985	21744508	G,A	0.5605	0.3093	-0.01	0.063	0.0264	0.8709
CDKAL1	rs16885170	21716554	G,A	0.8229	0.9708	-0.007	0.046	0.026	0.8718
CDKAL1	rs1973986	21687571	A,T	0.5557	0.8895	-0.006	0.038	0.0254	0.8734
CDKAL1	rs2181318	21691468	T,C	0.549	0.9168	-0.006	0.037	0.0251	0.8741
CDKAL1	rs79847215	21560355	C,A	0.9848	0.3334	0.036	0.231	0.0246	0.8753
CDKAL1	rs9368333	21743631	A,C	0.9748	0.5254	0.02	0.131	0.0233	0.8787
CDKAL1	rs114750919	21725361	C,G	0.9867	0.8444	0.022	0.16	0.0197	0.8884
CDKAL1	rs1475149	21688142	G,A	0.5662	0.9247	-0.005	0.037	0.0176	0.8944
CDKAL1	rs4712620	21554898	A,C	0.6509	0.3847	0.008	0.057	0.0174	0.8949
CDKAL1	rs80230506	21655914	C,A	0.9607	0.7829	-0.015	0.111	0.0172	0.8956
CDKAL1	rs145545902	21735584	D,R	0.6454	0.9341	-0.005	0.039	0.0158	0.8999
CDKAL1	rs7775506	21729962	C,T	0.4216	0.9976	0.004	0.035	0.0154	0.9014
CDKAL1	rs7771671	21662524	T,G	0.9284	0.8382	0.008	0.073	0.0131	0.9089
CDKAL1	rs7751397	21662535	C,T	0.9285	0.8402	0.008	0.073	0.0128	0.9099
CDKAL1	rs78712702	21700242	T,A	0.9843	0.4664	0.025	0.225	0.012	0.9127

CDKAL1	rs7739186	21657833	T,C	0.9158	0.8085	0.007	0.068	0.01	0.9204
CDKAL1	rs9466141	21673993	C,T	0.9236	0.9976	0.006	0.063	0.0099	0.9208
CDKAL1	rs147795739	21606396	C,G	0.9894	0.6082	0.02	0.215	0.009	0.9245
CDKAL1	rs7753451	21607833	T,C	0.9894	0.606	0.02	0.216	0.0083	0.9276
CDKAL1	rs138585583	21678890	R,D	0.8749	0.9014	0.004	0.051	0.0076	0.9304
CDKAL1	rs9466143	21676688	A,T	0.943	0.8542	0.006	0.077	0.0055	0.941
CDKAL1	rs115252874	21601345	A,C	0.9891	0.6163	0.015	0.211	0.0052	0.9424
CDKAL1	rs118074543	21601297	C,G	0.9891	0.6166	0.015	0.211	0.0052	0.9427
CDKAL1	rs6918842	21691009	C,T	0.5679	0.9924	-0.002	0.036	0.0048	0.9448
CDKAL1	rs116443937	21600982	A,T	0.9889	0.6106	0.014	0.21	0.0046	0.946
CDKAL1	rs7739131	21727148	C,T	0.7149	0.9794	-0.002	0.039	0.0038	0.9507
CDKAL1	rs112650104	21611568	C,G	0.9871	0.889	0.011	0.181	0.0037	0.9512
CDKAL1	rs111228858	21612309	G,A	0.9872	0.8945	0.011	0.181	0.0037	0.9513
CDKAL1	rs78923341	21612472	A,C	0.9872	0.895	0.011	0.181	0.0037	0.9514
CDKAL1	rs561391795	21725044	R,D	0.9346	0.4431	0.006	0.1	0.0031	0.9558
CDKAL1	rs9466140	21673293	A,G	0.9286	0.9271	0.004	0.068	0.0028	0.9579
CDKAL1	rs185847252	21676018	G,A	0.9496	0.8487	0.004	0.08	0.0027	0.9589
CDKAL1	rs75159243	21656071	A,T	0.9838	0.4842	0.01	0.202	0.0026	0.9592
CDKAL1	rs66735249	21686666	D,R	0.551	0.8357	-0.002	0.039	0.0025	0.96
CDKAL1	rs117396734	21615374	A,T	0.9894	0.5869	0.011	0.22	0.0024	0.961
CDKAL1	rs9466144	21676886	G,T	0.943	0.852	0.004	0.077	0.0023	0.9614
CDKAL1	rs9466160	21722771	A,G	0.9736	0.8106	-0.005	0.117	0.0021	0.9638
CDKAL1	rs6935968	21613156	G,A	0.9849	0.9776	-0.007	0.158	0.0019	0.965
CDKAL1	rs113842280	21611571	T,G	0.9848	0.967	-0.007	0.159	0.0019	0.9652
CDKAL1	rs79684204	21687368	A,C	0.9748	0.5098	-0.007	0.159	0.0019	0.9655
CDKAL1	rs112538002	21611751	T,C	0.9848	0.97	-0.007	0.159	0.0018	0.9661
CDKAL1	rs75127321	21613946	G,A	0.9849	0.9767	-0.007	0.158	0.0017	0.9672
CDKAL1	rs6456440	21658236	C,A	0.9344	0.7776	0.003	0.073	0.0016	0.968
CDKAL1	rs77222012	21614945	G,A	0.9849	0.9755	-0.006	0.159	0.0015	0.9689
CDKAL1	rs150071402	21610552	G,A	0.9896	0.5952	0.008	0.22	0.0015	0.9696
CDKAL1	rs10557323	21615430	R,D	0.9849	0.974	-0.006	0.159	0.0014	0.9704
CDKAL1	rs78278852	21688571	G,A	0.9753	0.5113	-0.005	0.161	0.0008	0.9772
CDKAL1	rs35487983	21739331	R,D	0.6885	0.8315	-0.001	0.042	0.0008	0.9774
CDKAL1	rs148767257	21687606	C,T	0.9752	0.5064	-0.004	0.161	0.0007	0.9785
CDKAL1	rs912025	21716058	C,G	0.8371	0.9358	0.001	0.049	0.0007	0.9792
CDKAL1	rs142460847	21687632	A,G	0.9751	0.5044	-0.004	0.161	0.0007	0.9793
CDKAL1	rs112553613	21616239	A,G	0.9848	0.9676	-0.004	0.159	0.0006	0.9809
CDKAL1	rs116342166	21630548	T,C	0.9891	0.5558	-0.005	0.224	0.0005	0.9824
CDKAL1	rs7747757	21686714	C,T	0.9752	0.5035	-0.003	0.161	0.0005	0.9829
CDKAL1	rs115180462	21686653	G,C	0.9752	0.5032	-0.003	0.161	0.0004	0.9832
CDKAL1	rs7746895	21686168	C,A	0.9752	0.5028	-0.003	0.162	0.0003	0.986
CDKAL1	rs571788443	21558875	R,D	0.8581	0.3304	-0.001	0.076	0.0002	0.9878
CDKAL1	rs7746432	21685933	C,T	0.9755	0.5041	-0.002	0.162	0.0001	0.991
CDKAL1	rs115061151	21659040	A,C	0.9843	0.4916	-0.002	0.203	0.0001	0.9925
CDKAL1	rs116258702	21618081	C,T	0.9891	0.5647	0.002	0.221	0.0001	0.993

CDKAL1	rs113534734	21596349	R,D	0.9404	0.7354	0	0.09	0	0.9966
CDKAL1	rs6456441	21658313	A,T	0.9842	0.4898	-0.001	0.203	0	0.9966

SNP association with **SOX4** sorted by p-value

SOX4	rs72175369	21738076	R,D	0.9214	0.781	0.343	0.131	6.8263	0.008983
SOX4	rs7451817	21735497	A,C	0.9341	0.9124	0.337	0.133	6.4457	0.01112
SOX4	rs9358449	21732383	G,A	0.937	0.9915	0.311	0.129	5.8172	0.01587
SOX4	rs12206842	21734489	A,T	0.9372	1	0.31	0.129	5.7854	0.01616
SOX4	rs6941897	21671979	C,A	0.9897	0.6097	-0.865	0.361	5.7599	0.0164
SOX4	rs9358448	21731736	G,A	0.9305	0.9625	0.296	0.126	5.5305	0.01869
SOX4	rs9348484	21731460	C,G	0.93	0.9619	0.295	0.126	5.5252	0.01874
SOX4	rs80177376	21744978	C,T	0.9048	0.3545	0.389	0.176	4.8931	0.02696
SOX4	rs112039884	21729100	C,T	0.9274	0.9676	0.263	0.124	4.5154	0.03359
SOX4	rs71657670	21613526	R,D	0.9864	0.77	-0.705	0.334	4.4501	0.0349
SOX4	rs111442391	21730723	C,T	0.9726	0.3086	0.691	0.329	4.4135	0.03566
SOX4	rs75327712	21728829	G,A	0.9295	0.9778	0.257	0.125	4.2478	0.0393
SOX4	rs79949484	21728966	G,A	0.9319	0.8819	0.272	0.133	4.1475	0.0417
SOX4	rs10946466	21727456	C,A	0.9298	0.9928	0.248	0.124	3.9864	0.04587
SOX4	rs111412021	21606278	T,C	0.9882	0.8163	-0.698	0.354	3.8896	0.04859
SOX4	rs12189901	21726940	G,A	0.9308	0.9638	0.248	0.127	3.8181	0.0507
SOX4	rs570404489	21689796	R,D	0.7798	0.3015	-0.259	0.133	3.7747	0.05203
SOX4	rs79169915	21607457	G,A	0.9882	0.848	-0.657	0.342	3.7008	0.05439
SOX4	rs145545902	21735584	D,R	0.6454	0.9341	-0.127	0.068	3.5366	0.06003
SOX4	rs113455272	21616778	T,C	0.9824	0.9392	-0.468	0.254	3.4099	0.06481
SOX4	rs78923341	21612472	A,C	0.9872	0.895	-0.571	0.312	3.3522	0.06711
SOX4	rs111228858	21612309	G,A	0.9872	0.8945	-0.571	0.312	3.3493	0.06723
SOX4	rs112650104	21611568	C,G	0.9871	0.889	-0.568	0.312	3.3007	0.06925
SOX4	rs138380902	21731187	R,D	0.9079	0.9299	0.199	0.109	3.2972	0.0694
SOX4	rs6935968	21613156	G,A	0.9849	0.9776	-0.49	0.273	3.2116	0.07312
SOX4	rs75127321	21613946	G,A	0.9849	0.9767	-0.49	0.273	3.2063	0.07336
SOX4	rs111887738	21616944	T,C	0.9828	0.9369	-0.461	0.258	3.199	0.07368
SOX4	rs77222012	21614945	G,A	0.9849	0.9755	-0.489	0.274	3.1988	0.07369
SOX4	rs10557323	21615430	R,D	0.9849	0.974	-0.489	0.274	3.1929	0.07396
SOX4	rs548873349	21736947	R,I	0.8405	0.7508	-0.169	0.095	3.1795	0.07457
SOX4	rs112553613	21616239	A,G	0.9848	0.9676	-0.486	0.274	3.1466	0.07608
SOX4	rs112538002	21611751	T,C	0.9848	0.97	-0.486	0.274	3.1453	0.07614
SOX4	rs113842280	21611571	T,G	0.9848	0.967	-0.485	0.274	3.13	0.07686
SOX4	rs16885189	21729682	G,A	0.8667	0.9973	-0.158	0.09	3.0537	0.08055
SOX4	rs1555529	21691704	A,G	0.7822	0.9942	0.129	0.076	2.9001	0.08858
SOX4	rs546083928	21596246	R,I	0.9877	0.6818	-0.65	0.385	2.8488	0.09144
SOX4	rs77394991	21735578	C,T	0.8447	0.9263	-0.145	0.086	2.8396	0.09197
SOX4	rs7762989	21624153	C,T	0.9883	0.8214	-0.577	0.349	2.7409	0.09781
SOX4	rs4710982	21733835	G,C	0.8653	0.9343	-0.153	0.093	2.6884	0.1011
SOX4	rs543173991	21629474	T,A	0.9884	0.7664	-0.569	0.355	2.5682	0.109
SOX4	rs12525631	21730840	C,T	0.8794	0.9968	-0.152	0.095	2.5616	0.1095
SOX4	rs190176895	21629550	C,A	0.9877	0.7487	-0.559	0.35	2.5494	0.1103

SOX4	rs111411936	21626246	G,A	0.9877	0.7672	-0.553	0.348	2.5271	0.1119
SOX4	rs140066406	21728813	R,I	0.8701	0.9744	-0.145	0.092	2.5009	0.1138
SOX4	rs6456437	21615443	T,C	0.7388	0.9506	-0.113	0.072	2.4908	0.1145
SOX4	rs76501983	21631411	G,A	0.9854	0.8228	-0.472	0.301	2.4604	0.1167
SOX4	rs9460670	21731138	C,A	0.877	0.9736	-0.147	0.095	2.4341	0.1187
SOX4	rs6924745	21693837	C,T	0.8421	0.8514	-0.146	0.094	2.4212	0.1197
SOX4	rs12528487	21735354	A,G	0.8629	0.9338	-0.144	0.093	2.4175	0.12
SOX4	rs9348480	21617782	G,A	0.7922	0.9408	-0.118	0.078	2.3152	0.1281
SOX4	rs75159243	21656071	A,T	0.9838	0.4842	-0.528	0.348	2.2987	0.1295
SOX4	rs9460658	21684193	C,T	0.9792	0.347	-0.571	0.377	2.2921	0.13
SOX4	rs9366406	21617668	T,A	0.7397	0.9296	-0.109	0.072	2.2805	0.131
SOX4	rs112395953	21727909	A,C	0.885	0.9741	-0.146	0.097	2.2782	0.1312
SOX4	rs4712633	21738249	A,G	0.8598	1	-0.134	0.089	2.2616	0.1326
SOX4	rs7739775	21727465	C,T	0.87	0.9769	-0.138	0.092	2.2581	0.1329
SOX4	rs189742413	21683505	C,T	0.984	0.4632	-0.451	0.303	2.2225	0.136
SOX4	rs9466128	21606679	G,T	0.3766	0.995	0.089	0.063	1.9637	0.1611
SOX4	rs143636013	21649787	G,C	0.9413	0.7828	-0.211	0.151	1.9461	0.163
SOX4	rs112117324	21606452	C,T	0.9756	0.8592	-0.281	0.202	1.9362	0.1641
SOX4	rs115900264	21738499	A,G	0.8705	0.965	-0.129	0.094	1.9118	0.1668
SOX4	rs113064891	21606092	R,I	0.9811	0.9369	-0.316	0.231	1.8716	0.1713
SOX4	rs112892524	21608321	C,T	0.981	0.9464	-0.313	0.229	1.8634	0.1722
SOX4	rs9358442	21573637	G,A	0.7034	0.4581	-0.136	0.1	1.8614	0.1725
SOX4	rs111684701	21608562	C,T	0.9809	0.9509	-0.313	0.229	1.8608	0.1725
SOX4	rs7740142	21609635	G,A	0.9809	0.955	-0.311	0.228	1.8525	0.1735
SOX4	rs9348483	21687390	G,T	0.7953	0.87	0.111	0.082	1.8078	0.1788
SOX4	rs7772583	21726279	G,A	0.6306	0.9061	-0.09	0.067	1.7898	0.181
SOX4	rs7739235	21609345	A,T	0.9799	0.962	-0.296	0.222	1.7874	0.1812
SOX4	rs6456441	21658313	A,T	0.9842	0.4898	-0.465	0.351	1.7633	0.1842
SOX4	rs12664833	21614978	T,G	0.8033	0.9552	-0.107	0.08	1.7608	0.1845
SOX4	rs115061151	21659040	A,C	0.9843	0.4916	-0.459	0.35	1.719	0.1898
SOX4	rs2144867	21689100	C,T	0.9874	0.3281	0.612	0.468	1.7151	0.1903
SOX4	rs9358441	21565339	T,C	0.7025	0.3571	-0.141	0.108	1.7115	0.1908
SOX4	rs9295513	21599766	G,A	0.9746	0.8988	-0.26	0.201	1.6777	0.1952
SOX4	rs34197291	21611277	R,D	0.7729	0.7368	-0.113	0.089	1.6182	0.2033
SOX4	rs7739186	21657833	T,C	0.9158	0.8085	-0.15	0.118	1.6147	0.2038
SOX4	rs7741780	21685460	A,G	0.8336	0.732	-0.122	0.097	1.592	0.207
SOX4	rs1615194	21648442	T,C	0.7437	0.9296	-0.097	0.077	1.5867	0.2078
SOX4	rs112102336	21677692	G,T	0.9639	0.7866	-0.25	0.199	1.579	0.2089
SOX4	rs7756206	21635314	T,G	0.7423	0.8724	-0.099	0.079	1.572	0.2099
SOX4	rs9350368	21562144	A,G	0.6823	0.3726	-0.128	0.103	1.5612	0.2115
SOX4	rs78870816	21665363	C,T	0.9434	0.7804	-0.188	0.151	1.5602	0.2116
SOX4	rs2180418	21690172	A,G	0.8397	0.9885	-0.106	0.085	1.5535	0.2126
SOX4	rs80264536	21666345	T,G	0.9437	0.7836	-0.187	0.151	1.5476	0.2135
SOX4	rs76062205	21666427	C,T	0.9438	0.7852	-0.187	0.151	1.5459	0.2137
SOX4	rs36027263	21648358	I,R	0.7129	0.8819	-0.095	0.077	1.5353	0.2153

SOX4	rs16885175	21726770	A,G	0.8585	0.8892	-0.115	0.093	1.5224	0.2173
SOX4	rs150997476	21663402	A,T	0.9893	0.6383	0.506	0.41	1.5201	0.2176
SOX4	rs1744866	21631188	C,T	0.9885	0.3807	0.58	0.477	1.4758	0.2244
SOX4	rs113815998	21709365	G,T	0.9608	0.7324	-0.208	0.172	1.4662	0.2259
SOX4	rs116300465	21738509	T,G	0.8638	0.9326	-0.113	0.094	1.4603	0.2269
SOX4	rs78825652	21609539	I,R	0.6732	0.9671	-0.078	0.065	1.4592	0.2271
SOX4	rs1740849	21619809	G,A	0.3637	0.9622	0.08	0.066	1.4562	0.2275
SOX4	rs114613272	21721382	C,T	0.984	0.8169	-0.323	0.268	1.4565	0.2275
SOX4	rs1744895	21680899	G,C	0.4958	1	0.08	0.066	1.4446	0.2294
SOX4	rs1744893	21680746	T,C	0.5019	0.987	0.081	0.067	1.4443	0.2294
SOX4	rs1740855	21680782	C,T	0.5021	0.9879	0.081	0.067	1.4414	0.2299
SOX4	rs1744892	21680206	A,G	0.4953	0.9943	0.079	0.066	1.4113	0.2348
SOX4	rs1740856	21681223	G,A	0.5041	0.9379	0.082	0.069	1.41	0.2351
SOX4	rs1744896	21681103	A,G	0.5038	0.9407	0.082	0.069	1.4012	0.2365
SOX4	rs74785728	21611723	G,A	0.9819	0.9332	-0.282	0.239	1.398	0.2371
SOX4	rs1744894	21680886	T,C	0.4962	0.9953	0.079	0.067	1.3916	0.2381
SOX4	rs113196987	21575419	A,G	0.9232	0.5162	-0.18	0.153	1.3818	0.2398
SOX4	rs9466136	21653258	C,T	0.905	0.8569	-0.123	0.105	1.3793	0.2402
SOX4	rs9466127	21602745	G,A	0.9739	0.9906	-0.213	0.182	1.3754	0.2409
SOX4	rs1740868	21660205	G,T	0.6798	0.8487	-0.084	0.071	1.3736	0.2412
SOX4	rs1740858	21682180	C,T	0.507	0.8636	0.084	0.072	1.3625	0.2431
SOX4	rs1740857	21681617	T,G	0.5067	0.8693	0.084	0.072	1.3601	0.2435
SOX4	rs1740859	21682298	C,T	0.5072	0.8627	0.084	0.072	1.3588	0.2437
SOX4	rs62403974	21713978	T,C	0.7736	0.9053	-0.089	0.077	1.3524	0.2449
SOX4	rs1740861	21678006	T,C	0.5038	0.9738	0.076	0.066	1.3375	0.2475
SOX4	rs116104882	21654116	G,C	0.9607	0.7845	-0.222	0.193	1.3199	0.2506
SOX4	rs145648458	21636404	T,C	0.9762	0.7475	-0.252	0.22	1.3121	0.252
SOX4	rs138585583	21678890	R,D	0.8749	0.9014	-0.1	0.087	1.3074	0.2529
SOX4	rs142641808	21677158	C,T	0.9656	0.7625	-0.242	0.212	1.3047	0.2533
SOX4	rs1744891	21679835	G,A	0.5058	0.9872	0.075	0.066	1.3006	0.2541
SOX4	rs1740846	21621045	A,G	0.6874	0.9924	-0.075	0.066	1.2979	0.2546
SOX4	rs6941630	21679102	C,T	0.5039	0.9783	0.075	0.066	1.2964	0.2549
SOX4	rs147268567	21621169	D,R	0.6874	0.993	-0.075	0.066	1.293	0.2555
SOX4	rs397888201	21681363	R,D	0.4982	0.7168	0.09	0.079	1.2924	0.2556
SOX4	rs113989215	21665766	A,C	0.9131	0.855	-0.123	0.109	1.2927	0.2556
SOX4	rs1744852	21621724	A,G	0.6871	0.9927	-0.075	0.066	1.2884	0.2563
SOX4	rs149019701	21621670	D,R	0.6874	0.9939	-0.075	0.066	1.2868	0.2566
SOX4	rs1740845	21621731	G,A	0.6871	0.9929	-0.075	0.066	1.2868	0.2566
SOX4	rs34987769	21678839	R,I	0.5043	0.9785	0.075	0.066	1.2834	0.2573
SOX4	rs542285387	21621459	I,R	0.6862	0.9884	-0.074	0.066	1.2748	0.2589
SOX4	rs139032454	21644326	A,C	0.9757	0.7441	-0.248	0.221	1.2643	0.2608
SOX4	rs12200574	21683353	G,A	0.5092	0.842	0.081	0.072	1.2642	0.2609
SOX4	rs9466133	21643948	C,T	0.9757	0.7442	-0.248	0.221	1.2612	0.2614
SOX4	rs9460656	21643907	A,G	0.9758	0.7442	-0.248	0.221	1.2599	0.2617
SOX4	rs11961107	21642740	G,A	0.9758	0.7454	-0.247	0.221	1.2555	0.2625

SOX4	rs150184400	21642793	T,C	0.9758	0.7454	-0.247	0.221	1.2555	0.2625
SOX4	rs12332790	21642505	C,T	0.9758	0.7456	-0.247	0.221	1.254	0.2628
SOX4	rs2759362	21681885	G,A	0.5173	0.8653	0.078	0.071	1.2348	0.2665
SOX4	rs4712620	21554898	A,C	0.6509	0.3847	-0.11	0.099	1.2338	0.2667
SOX4	rs9295515	21641667	C,T	0.976	0.7495	-0.244	0.22	1.232	0.267
SOX4	rs146150526	21575243	T,C	0.9263	0.5346	-0.169	0.153	1.2251	0.2684
SOX4	rs12333154	21640855	G,A	0.976	0.751	-0.243	0.22	1.2251	0.2684
SOX4	rs9460657	21660051	C,T	0.8938	0.8161	-0.114	0.103	1.2224	0.2689
SOX4	rs147273446	21638982	C,G	0.9761	0.7533	-0.242	0.219	1.2205	0.2693
SOX4	rs10155733	21639594	C,T	0.9761	0.7534	-0.242	0.22	1.2202	0.2693
SOX4	rs11966675	21640125	G,A	0.9761	0.7522	-0.243	0.22	1.2205	0.2693
SOX4	rs10155732	21639540	C,T	0.9761	0.7536	-0.242	0.219	1.2197	0.2694
SOX4	rs138882930	21638300	A,G	0.9761	0.7432	-0.244	0.221	1.22	0.2694
SOX4	rs114977922	21638119	C,G	0.9762	0.7437	-0.244	0.221	1.2194	0.2695
SOX4	rs148317817	21638986	G,A	0.9761	0.7532	-0.242	0.219	1.2187	0.2696
SOX4	rs1740848	21620293	G,A	0.6882	0.9886	-0.073	0.066	1.2167	0.27
SOX4	rs1740847	21620469	C,A	0.6882	0.9889	-0.073	0.066	1.2141	0.2705
SOX4	rs13215657	21683714	C,T	0.511	0.7765	0.083	0.075	1.2103	0.2713
SOX4	rs13219202	21683982	G,A	0.5273	0.7259	0.087	0.079	1.2092	0.2715
SOX4	rs527350470	21640569	R,D	0.9745	0.7043	-0.241	0.22	1.1993	0.2735
SOX4	rs7742225	21685474	G,A	0.827	0.7132	-0.106	0.097	1.1967	0.274
SOX4	rs1740865	21668071	C,A	0.5314	0.8949	0.077	0.071	1.1877	0.2758
SOX4	rs7763048	21681780	G,A	0.4974	0.8635	0.077	0.072	1.1472	0.2841
SOX4	rs13219086	21683929	G,C	0.5137	0.7654	0.081	0.076	1.1418	0.2853
SOX4	rs1740853	21684065	G,A	0.5152	0.7328	0.082	0.077	1.1326	0.2872
SOX4	rs548416728	21647978	R,D	0.9747	0.6618	-0.245	0.234	1.0958	0.2952
SOX4	rs80230506	21655914	C,A	0.9607	0.7829	-0.2	0.192	1.0894	0.2966
SOX4	rs1740831	21647589	G,A	0.7131	0.9772	-0.076	0.073	1.088	0.2969
SOX4	rs531584400	21574100	R,D	0.9506	0.471	-0.214	0.205	1.0841	0.2978
SOX4	rs941990	21658881	A,G	0.6778	0.8561	-0.073	0.07	1.08	0.2987
SOX4	rs2749681	21683792	A,G	0.5085	0.771	0.078	0.075	1.0793	0.2989
SOX4	rs73378032	21744446	C,A	0.9796	0.3201	0.352	0.339	1.0763	0.2995
SOX4	rs36024930	21605537	R,D	0.7795	0.8154	-0.087	0.084	1.076	0.2996
SOX4	rs59015153	21574306	T,A	0.9504	0.4712	-0.211	0.204	1.0685	0.3013
SOX4	rs112524196	21743604	G,A	0.9794	0.3214	0.348	0.337	1.0626	0.3026
SOX4	rs12183824	21726382	G,A	0.8184	0.3562	-0.137	0.133	1.0609	0.303
SOX4	rs116300170	21663541	G,A	0.9641	0.8099	-0.204	0.198	1.0565	0.304
SOX4	rs185494084	21636537	T,C	0.9884	0.4475	-0.494	0.482	1.0504	0.3054
SOX4	rs73737565	21664442	T,G	0.9768	0.5564	-0.267	0.262	1.0362	0.3087
SOX4	rs571632729	21726382	R,I	0.896	0.3926	-0.163	0.16	1.0359	0.3088
SOX4	rs9350367	21555608	C,T	0.6563	0.3839	-0.102	0.1	1.0281	0.3106
SOX4	rs111232506	21744922	C,T	0.9798	0.3015	0.355	0.35	1.0262	0.3111
SOX4	rs75994264	21745903	C,T	0.9868	0.3369	0.437	0.433	1.0202	0.3125
SOX4	rs77155105	21682861	C,G	0.9671	0.7117	-0.225	0.223	1.0185	0.3129
SOX4	rs116697959	21668594	A,T	0.9652	0.8312	-0.2	0.198	1.0162	0.3134

SOX4	rs74492370	21679606	G,A	0.9678	0.8228	-0.21	0.208	1.0123	0.3143
SOX4	rs78971333	21679601	C,T	0.9678	0.8229	-0.21	0.208	1.0115	0.3145
SOX4	rs6456439	21645743	T,G	0.7125	0.9939	-0.073	0.072	1.0099	0.3149
SOX4	rs76934110	21669629	G,A	0.9626	0.7982	-0.197	0.196	1.0062	0.3158
SOX4	rs60368679	21746134	C,T	0.9868	0.3206	0.443	0.443	1.0033	0.3165
SOX4	rs75509154	21670162	A,G	0.9656	0.8408	-0.198	0.198	1.0003	0.3172
SOX4	rs66647983	21633079	R,D	0.5368	0.3749	0.102	0.102	0.9992	0.3175
SOX4	rs7771671	21662524	T,G	0.9284	0.8382	-0.125	0.126	0.9897	0.3198
SOX4	rs6456442	21698279	T,C	0.5821	0.821	-0.068	0.068	0.9885	0.3201
SOX4	rs9460668	21727929	C,G	0.8216	0.9705	-0.086	0.086	0.9882	0.3202
SOX4	rs7751397	21662535	C,T	0.9285	0.8402	-0.125	0.126	0.9871	0.3205
SOX4	rs147488932	21672276	G,A	0.9657	0.8442	-0.195	0.198	0.9733	0.3239
SOX4	rs60908846	21646239	I,R	0.758	0.8675	-0.079	0.08	0.9626	0.3265
SOX4	rs9295514	21636585	A,G	0.7107	0.9234	-0.073	0.075	0.9592	0.3274
SOX4	rs79002033	21706995	C,T	0.9739	0.6771	-0.226	0.232	0.9485	0.3301
SOX4	rs35001920	21676726	R,D	0.4775	0.9497	0.067	0.069	0.9435	0.3314
SOX4	rs1744886	21671092	A,T	0.5151	0.9725	0.066	0.068	0.9418	0.3318
SOX4	rs72317305	21669872	R,D	0.5156	0.9662	0.066	0.068	0.9388	0.3326
SOX4	rs75157802	21678178	A,G	0.9675	0.834	-0.198	0.204	0.937	0.3331
SOX4	rs59759742	21707319	T,G	0.6009	0.9285	-0.062	0.064	0.9313	0.3345
SOX4	rs115252874	21601345	A,C	0.9891	0.6163	0.351	0.364	0.9293	0.335
SOX4	rs118074543	21601297	C,G	0.9891	0.6166	0.35	0.364	0.9267	0.3357
SOX4	rs1740833	21646435	A,G	0.6798	0.9621	-0.066	0.068	0.9264	0.3358
SOX4	rs79693897	21695822	R,D	0.6627	0.717	-0.075	0.079	0.9176	0.3381
SOX4	rs1744880	21653046	A,G	0.6868	0.9845	-0.063	0.066	0.9165	0.3384
SOX4	rs79847215	21560355	C,A	0.9848	0.3334	-0.381	0.399	0.9119	0.3396
SOX4	rs369470901	21707320	R,I	0.6014	0.9269	-0.062	0.065	0.9085	0.3405
SOX4	rs9466156	21711491	C,T	0.5874	0.9998	-0.059	0.062	0.9059	0.3412
SOX4	rs116443937	21600982	A,T	0.9889	0.6106	0.345	0.363	0.9052	0.3414
SOX4	rs62403977	21725337	C,T	0.8232	0.9705	-0.083	0.087	0.901	0.3425
SOX4	rs34810044	21718703	R,D	0.7721	0.9072	-0.071	0.075	0.9005	0.3426
SOX4	rs9466140	21673293	A,G	0.9286	0.9271	-0.11	0.117	0.8847	0.3469
SOX4	rs1744856	21625895	G,A	0.6341	0.4717	0.09	0.096	0.8843	0.347
SOX4	rs147795739	21606396	C,G	0.9894	0.6082	0.349	0.371	0.8825	0.3475
SOX4	rs35612989	21663201	R,I	0.4311	0.4511	0.088	0.094	0.882	0.3477
SOX4	rs76401928	21586715	G,A	0.9419	0.6097	-0.153	0.162	0.8819	0.3477
SOX4	rs111503674	21585461	T,C	0.941	0.5927	-0.153	0.164	0.8787	0.3485
SOX4	rs79521243	21581049	T,C	0.9405	0.5684	-0.155	0.166	0.8705	0.3508
SOX4	rs7753451	21607833	T,C	0.9894	0.606	0.347	0.372	0.8691	0.3512
SOX4	rs9466158	21717309	T,C	0.7892	0.921	-0.073	0.079	0.8631	0.3529
SOX4	rs201389513	21635326	D,R	0.7672	0.8696	-0.075	0.081	0.8626	0.353
SOX4	rs9466164	21723538	A,G	0.8284	0.9494	-0.083	0.089	0.8621	0.3532
SOX4	rs11968460	21718604	G,A	0.8056	0.9024	-0.078	0.086	0.8293	0.3625
SOX4	rs150071402	21610552	G,A	0.9896	0.5952	0.347	0.381	0.8293	0.3625
SOX4	rs73392015	21591766	C,T	0.9671	0.4088	0.255	0.281	0.8211	0.3649

SOX4	rs7772337	21726278	C,T	0.8256	0.9612	-0.08	0.088	0.8194	0.3654
SOX4	rs9460660	21709294	T,C	0.616	0.9365	-0.059	0.066	0.803	0.3702
SOX4	rs16885105	21598981	C,T	0.9309	0.9869	-0.109	0.122	0.7978	0.3717
SOX4	rs6921422	21600523	C,A	0.9308	0.9908	-0.109	0.122	0.7958	0.3723
SOX4	rs9466124	21599700	A,G	0.9309	0.9964	-0.109	0.122	0.7959	0.3723
SOX4	rs7775506	21729962	C,T	0.4216	0.9976	0.054	0.06	0.795	0.3726
SOX4	rs117396734	21615374	A,T	0.9894	0.5869	0.338	0.38	0.7951	0.3726
SOX4	rs11965374	21629739	T,G	0.9653	0.7623	-0.172	0.194	0.7906	0.3739
SOX4	rs11281983	21600430	R,I	0.9309	0.9934	-0.108	0.122	0.7893	0.3743
SOX4	rs11757166	21652990	C,T	0.6883	0.9879	-0.058	0.066	0.7775	0.3779
SOX4	rs7772163	21726011	G,C	0.8088	0.9857	-0.073	0.083	0.7764	0.3783
SOX4	rs112617138	21576898	A,G	0.938	0.5193	-0.148	0.169	0.7697	0.3803
SOX4	rs1622043	21609285	A,G	0.6925	0.9814	-0.058	0.067	0.7678	0.3809
SOX4	rs9466163	21723532	C,T	0.809	0.9768	-0.072	0.083	0.7576	0.3841
SOX4	rs1744879	21652741	A,G	0.6892	0.9997	-0.057	0.066	0.7562	0.3845
SOX4	rs6926491	21724670	G,A	0.8091	0.9926	-0.072	0.083	0.7557	0.3847
SOX4	rs112243204	21582142	T,C	0.9498	0.5703	-0.151	0.174	0.7518	0.3859
SOX4	rs116258702	21618081	C,T	0.9891	0.5647	0.33	0.381	0.7482	0.387
SOX4	rs9466125	21601156	A,G	0.9295	0.9574	-0.106	0.123	0.7427	0.3888
SOX4	rs1740837	21633917	C,T	0.6783	0.9174	-0.06	0.07	0.7413	0.3892
SOX4	rs1617781	21608766	A,G	0.693	0.9819	-0.057	0.067	0.7337	0.3917
SOX4	rs77625474	21604127	G,T	0.9308	0.9762	-0.103	0.121	0.7246	0.3946
SOX4	rs6925679	21724480	A,G	0.8086	1	-0.07	0.082	0.7222	0.3954
SOX4	rs147276150	21701200	A,G	0.9274	0.4176	-0.165	0.195	0.7203	0.396
SOX4	rs9466165	21724322	T,C	0.8089	0.9953	-0.07	0.083	0.7166	0.3973
SOX4	rs77401992	21579608	A,G	0.9474	0.5364	-0.149	0.176	0.7155	0.3976
SOX4	rs2251647	21677746	C,A	0.9512	0.9786	0.129	0.153	0.7133	0.3984
SOX4	rs9460665	21724144	G,A	0.8084	1	-0.069	0.082	0.7071	0.4004
SOX4	rs10080820	21655815	C,G	0.983	0.7561	-0.212	0.252	0.7065	0.4006
SOX4	rs75228175	21579117	C,T	0.9479	0.5358	-0.148	0.177	0.7041	0.4014
SOX4	rs75122426	21580566	T,C	0.985	0.6235	-0.253	0.302	0.6989	0.4032
SOX4	rs59187080	21668625	G,A	0.966	0.7875	-0.148	0.177	0.6985	0.4033
SOX4	rs9295516	21673560	C,T	0.9483	0.8605	-0.113	0.136	0.6978	0.4035
SOX4	rs73737557	21570448	T,C	0.9333	0.4619	-0.145	0.174	0.6907	0.4059
SOX4	rs2749683	21635327	T,G	0.767	0.8784	-0.067	0.081	0.6871	0.4072
SOX4	rs1744861	21627986	A,T	0.3793	0.9676	0.053	0.064	0.686	0.4075
SOX4	rs61197304	21570213	G,A	0.9581	0.4232	-0.19	0.229	0.6854	0.4077
SOX4	rs9460664	21723621	G,A	0.8102	0.9858	-0.069	0.083	0.6836	0.4084
SOX4	rs1744882	21657561	T,G	0.7003	0.8473	-0.061	0.073	0.6825	0.4087
SOX4	rs557872691	21603474	R,D	0.8825	0.5572	-0.102	0.124	0.6811	0.4092
SOX4	rs60459153	21570941	G,A	0.9572	0.4198	-0.188	0.228	0.6813	0.4092
SOX4	rs141765572	21679089	G,T	0.9877	0.5484	0.334	0.405	0.6794	0.4098
SOX4	rs10080752	21655608	C,G	0.9819	0.7225	-0.206	0.251	0.6724	0.4122
SOX4	rs1740835	21637725	G,A	0.7724	0.8961	-0.066	0.081	0.6713	0.4126
SOX4	rs1989470	21715067	T,A	0.5732	0.9562	-0.051	0.063	0.6697	0.4131

SOX4	rs4712631	21710896	C,T	0.586	0.9993	-0.05	0.062	0.6697	0.4132
SOX4	rs60048426	21556513	G,A	0.947	0.5576	-0.133	0.163	0.6662	0.4144
SOX4	rs9466141	21673993	C,T	0.9236	0.9976	-0.089	0.109	0.6658	0.4145
SOX4	rs10946462	21651830	C,T	0.6894	0.9828	-0.054	0.066	0.6634	0.4153
SOX4	rs2749688	21658487	G,C	0.6992	0.8356	-0.06	0.074	0.6633	0.4154
SOX4	rs62406884	21696308	C,T	0.9205	0.414	-0.149	0.183	0.6616	0.416
SOX4	rs1972212	21743761	C,T	0.8703	0.5142	-0.109	0.135	0.6534	0.4189
SOX4	rs840985	21744508	G,A	0.5605	0.3093	-0.088	0.109	0.6524	0.4192
SOX4	rs4712632	21732137	G,A	0.4138	0.9644	0.05	0.062	0.6513	0.4196
SOX4	rs76714354	21572464	A,G	0.9805	0.3806	-0.273	0.341	0.6431	0.4226
SOX4	rs112653724	21576915	G,A	0.9388	0.5234	-0.136	0.169	0.6415	0.4232
SOX4	rs1740834	21645207	C,T	0.7742	0.9378	-0.063	0.079	0.6411	0.4233
SOX4	rs9368325	21577508	C,T	0.8604	0.347	-0.121	0.151	0.6397	0.4238
SOX4	rs11361021	21608909	D,R	0.6928	0.9683	-0.054	0.067	0.6363	0.425
SOX4	rs1740826	21651528	G,A	0.6892	0.9762	-0.053	0.067	0.6306	0.4271
SOX4	rs78265086	21720541	T,C	0.9826	0.8636	-0.177	0.223	0.6276	0.4282
SOX4	rs7759991	21609547	C,T	0.6977	0.9669	-0.053	0.068	0.6245	0.4294
SOX4	rs1744848	21609563	C,T	0.6977	0.9669	-0.053	0.068	0.6239	0.4296
SOX4	rs1744877	21651554	T,C	0.6891	0.9768	-0.052	0.067	0.6208	0.4307
SOX4	rs12333123	21640660	G,A	0.9848	0.7705	-0.211	0.268	0.6168	0.4322
SOX4	rs11753001	21726506	T,C	0.9147	0.5112	-0.128	0.162	0.6166	0.4323
SOX4	rs562901644	21554922	R,D	0.9157	0.7168	-0.095	0.121	0.6149	0.4329
SOX4	rs74329629	21583401	G,A	0.9656	0.5138	-0.187	0.24	0.6115	0.4342
SOX4	rs59493338	21646242	T,A	0.701	0.8468	-0.059	0.075	0.6057	0.4364
SOX4	rs116239840	21722970	A,C	0.8218	0.9134	-0.069	0.088	0.602	0.4378
SOX4	rs9466161	21722916	T,C	0.7866	0.8907	-0.06	0.078	0.6014	0.438
SOX4	rs558880181	21699974	R,D	0.9241	0.5575	-0.103	0.134	0.5945	0.4407
SOX4	rs150235785	21638293	G,A	0.9849	0.7598	-0.207	0.27	0.5919	0.4417
SOX4	rs6925119	21701083	G,A	0.6412	0.822	-0.055	0.072	0.5883	0.4431
SOX4	rs116342166	21630548	T,C	0.9891	0.5558	0.295	0.387	0.5806	0.4461
SOX4	rs56050802	21555539	C,T	0.8664	0.6128	-0.077	0.102	0.5672	0.4514
SOX4	rs1744855	21623715	G,A	0.3803	0.9708	0.048	0.064	0.5662	0.4518
SOX4	rs7773111	21696531	G,A	0.6146	0.751	-0.056	0.074	0.5653	0.4521
SOX4	rs571788443	21558875	R,D	0.8581	0.3304	-0.098	0.131	0.5572	0.4554
SOX4	rs185847252	21676018	G,A	0.9496	0.8487	-0.102	0.138	0.5511	0.4579
SOX4	rs141898580	21709985	C,T	0.9816	0.8379	-0.164	0.221	0.551	0.4579
SOX4	rs113932195	21562740	T,C	0.9088	0.469	-0.102	0.138	0.5503	0.4582
SOX4	rs56004640	21716262	A,G	0.8113	0.9096	-0.064	0.086	0.55	0.4583
SOX4	rs115733488	21695961	T,C	0.9892	0.5305	-0.235	0.318	0.5466	0.4597
SOX4	rs79853707	21699451	C,T	0.986	0.5502	-0.207	0.28	0.5461	0.4599
SOX4	rs150345835	21568080	R,D	0.983	0.3784	-0.27	0.366	0.5448	0.4605
SOX4	rs75179770	21568397	C,T	0.9582	0.4017	-0.173	0.235	0.544	0.4608
SOX4	rs73737558	21577723	A,G	0.9837	0.4293	-0.259	0.352	0.5414	0.4619
SOX4	rs78686872	21566786	T,C	0.9087	0.4686	-0.101	0.138	0.5355	0.4643
SOX4	rs78225455	21566785	T,A	0.9087	0.4686	-0.101	0.138	0.5343	0.4648

SOX4	rs549313068	21638634	R,D	0.9854	0.7268	0.233	0.319	0.5334	0.4652
SOX4	rs35528538	21613493	R,D	0.8281	0.9642	-0.063	0.086	0.5302	0.4665
SOX4	rs9466169	21746181	A,G	0.8659	0.4166	-0.108	0.148	0.5298	0.4667
SOX4	rs9466168	21734750	C,T	0.8215	0.9954	-0.06	0.083	0.5274	0.4677
SOX4	rs62404141	21614140	G,A	0.8281	0.9622	-0.063	0.086	0.526	0.4683
SOX4	rs9466154	21706155	G,T	0.6423	0.8816	-0.05	0.07	0.5255	0.4685
SOX4	rs60336041	21714991	A,C	0.9818	0.9007	-0.157	0.217	0.5211	0.4704
SOX4	rs7740486	21714797	A,G	0.9818	0.8978	-0.157	0.217	0.5203	0.4707
SOX4	rs530522537	21694259	R,D	0.9305	0.6164	-0.105	0.146	0.5196	0.471
SOX4	rs574039752	21629819	R,D	0.3639	0.9279	0.048	0.067	0.5144	0.4732
SOX4	rs5874825	21634749	I,R	0.7699	0.8924	-0.058	0.08	0.5141	0.4734
SOX4	rs9460659	21696569	G,C	0.6689	0.7266	-0.056	0.079	0.5118	0.4743
SOX4	rs111355896	21649454	I,R	0.7486	0.9074	-0.056	0.078	0.5117	0.4744
SOX4	rs1740836	21634644	G,A	0.7705	0.8935	-0.057	0.08	0.5103	0.475
SOX4	rs1740838	21632759	G,T	0.3851	0.7571	0.052	0.073	0.507	0.4764
SOX4	rs6456440	21658236	C,A	0.9344	0.7776	-0.09	0.127	0.5069	0.4765
SOX4	rs139581361	21722128	G,A	0.9879	0.8119	-0.225	0.317	0.5054	0.4771
SOX4	rs34954830	21632488	R,I	0.9584	0.5469	-0.138	0.194	0.5048	0.4774
SOX4	rs111928162	21706372	T,C	0.9868	0.6035	-0.195	0.274	0.5039	0.4778
SOX4	rs113183700	21702524	A,G	0.9869	0.5842	-0.198	0.28	0.5019	0.4787
SOX4	rs16885205	21743291	T,C	0.8644	0.5834	-0.088	0.124	0.5007	0.4792
SOX4	rs111374956	21699545	G,C	0.9871	0.5681	-0.202	0.285	0.4989	0.48
SOX4	rs6456443	21716233	G,A	0.9818	0.9202	-0.152	0.216	0.4982	0.4803
SOX4	rs73376077	21720504	C,T	0.7969	0.9025	-0.059	0.083	0.494	0.4821
SOX4	rs7757467	21718123	C,T	0.9813	0.9676	-0.147	0.21	0.4908	0.4836
SOX4	rs9460671	21731289	G,C	0.41	0.9868	0.044	0.063	0.4879	0.4849
SOX4	rs7751661	21621850	G,A	0.6705	1	-0.045	0.065	0.4872	0.4852
SOX4	rs11438117	21660100	R,I	0.4211	0.4868	0.063	0.091	0.4867	0.4854
SOX4	rs58919806	21570038	G,A	0.8921	0.397	-0.097	0.14	0.4859	0.4858
SOX4	rs7753199	21717706	G,A	0.9819	0.9391	-0.149	0.215	0.4845	0.4864
SOX4	rs7757232	21717818	G,A	0.9819	0.9404	-0.149	0.215	0.4828	0.4871
SOX4	rs7739666	21718260	T,C	0.9818	0.939	-0.148	0.214	0.4774	0.4896
SOX4	rs35829440	21655243	R,I	0.602	0.3134	0.079	0.115	0.476	0.4903
SOX4	rs35487983	21739331	R,D	0.6885	0.8315	0.05	0.072	0.4757	0.4904
SOX4	rs9466153	21700048	C,T	0.9445	0.5887	-0.105	0.152	0.4753	0.4906
SOX4	rs200822534	21701029	R,D	0.6386	0.6957	-0.055	0.08	0.4725	0.4918
SOX4	rs114750919	21725361	C,G	0.9867	0.8444	0.189	0.276	0.4704	0.4928
SOX4	rs199690993	21646009	R,D	0.9762	0.3058	-0.232	0.338	0.4705	0.4928
SOX4	rs111479343	21561070	G,T	0.9092	0.4694	-0.094	0.138	0.4675	0.4941
SOX4	rs145960980	21729330	D,R	0.4093	0.9758	0.043	0.063	0.4675	0.4942
SOX4	rs9466159	21721313	A,G	0.8227	0.9323	-0.061	0.089	0.465	0.4953
SOX4	rs58572340	21555505	T,A	0.8729	0.5846	-0.073	0.107	0.4622	0.4966
SOX4	rs56175726	21566498	G,A	0.9534	0.3503	-0.163	0.239	0.4623	0.4966
SOX4	rs9366408	21742607	G,A	0.9822	0.9856	-0.133	0.196	0.4619	0.4967
SOX4	rs74926222	21568994	C,T	0.9816	0.3776	-0.238	0.352	0.4576	0.4987

SOX4	rs9466143	21676688	A,T	0.943	0.8542	-0.089	0.132	0.4538	0.5005
SOX4	rs138387168	21716280	C,T	0.9765	0.7359	-0.158	0.235	0.4535	0.5007
SOX4	rs5874829	21738740	R,I	0.8074	0.7675	-0.061	0.091	0.4513	0.5017
SOX4	rs78714768	21631590	C,T	0.9845	0.8158	-0.168	0.251	0.4463	0.5041
SOX4	rs9460651	21622531	G,T	0.672	0.9951	-0.044	0.065	0.4456	0.5044
SOX4	rs149768565	21719941	R,D	0.9754	0.6872	-0.144	0.216	0.4449	0.5047
SOX4	rs1740842	21623181	G,A	0.6726	0.9885	-0.044	0.066	0.4435	0.5054
SOX4	rs1744854	21623686	C,T	0.6725	0.9882	-0.044	0.066	0.4434	0.5055
SOX4	rs138691949	21653247	A,T	0.9812	0.5466	-0.201	0.302	0.4422	0.5061
SOX4	rs1744853	21623386	A,G	0.6725	0.9887	-0.044	0.066	0.4419	0.5062
SOX4	rs6933476	21720156	G,A	0.9819	0.8936	-0.145	0.218	0.4415	0.5064
SOX4	rs79883278	21720741	C,T	0.9819	0.8353	-0.147	0.221	0.4396	0.5073
SOX4	rs571708107	21634038	D,R	0.6795	0.8686	-0.048	0.072	0.4377	0.5082
SOX4	rs9368332	21731094	G,A	0.4156	0.9974	0.041	0.062	0.4374	0.5084
SOX4	rs9466144	21676886	G,T	0.943	0.852	-0.087	0.132	0.4338	0.5102
SOX4	rs1740844	21622871	C,T	0.6724	0.9911	-0.043	0.066	0.4335	0.5103
SOX4	rs534329540	21629251	R,I	0.4972	0.5784	0.055	0.084	0.4326	0.5107
SOX4	rs561391795	21725044	R,D	0.9346	0.4431	0.113	0.173	0.4294	0.5123
SOX4	rs147045541	21675767	C,T	0.9834	0.576	-0.198	0.303	0.428	0.513
SOX4	rs114455294	21693186	A,T	0.9731	0.5546	-0.149	0.228	0.4266	0.5136
SOX4	rs9368326	21590104	A,G	0.8056	0.5535	-0.069	0.105	0.4249	0.5145
SOX4	rs35857450	21622415	D,R	0.6703	0.8902	-0.045	0.069	0.4233	0.5153
SOX4	rs7759495	21706044	G,A	0.6142	0.9046	-0.043	0.067	0.421	0.5165
SOX4	rs4616978	21606129	G,A	0.8111	0.9353	-0.053	0.083	0.4176	0.5181
SOX4	rs142355149	21692662	A,C	0.9804	0.36	-0.252	0.393	0.4124	0.5208
SOX4	rs7744188	21694601	T,C	0.9149	0.6416	-0.08	0.125	0.4078	0.5231
SOX4	rs73374447	21636151	C,T	0.9753	0.3	-0.213	0.334	0.4044	0.5248
SOX4	rs79846403	21723244	C,T	0.8348	0.8403	-0.061	0.096	0.4026	0.5257
SOX4	rs149385127	21642947	G,A	0.9849	0.723	0.197	0.311	0.4013	0.5264
SOX4	rs74323084	21645152	C,G	0.9857	0.7691	0.195	0.31	0.3974	0.5284
SOX4	rs1740827	21650969	A,T	0.7378	0.9342	-0.048	0.076	0.3894	0.5326
SOX4	rs9368333	21743631	A,C	0.9748	0.5254	-0.141	0.227	0.3894	0.5326
SOX4	rs112837708	21696451	G,A	0.9648	0.4436	-0.135	0.217	0.3848	0.5351
SOX4	rs1740851	21616268	T,C	0.7152	0.9852	-0.043	0.069	0.3841	0.5354
SOX4	rs77991965	21694060	G,A	0.9358	0.6372	-0.094	0.152	0.3816	0.5368
SOX4	rs4710981	21732702	G,C	0.4166	0.9635	0.038	0.062	0.3741	0.5408
SOX4	rs11284636	21591706	R,D	0.9858	0.4225	0.228	0.376	0.3676	0.5443
SOX4	rs1322883	21720796	A,G	0.5867	0.9164	-0.039	0.064	0.3649	0.5458
SOX4	rs73376030	21700390	T,G	0.6688	0.8019	-0.045	0.075	0.3635	0.5466
SOX4	rs113534734	21596349	R,D	0.9404	0.7354	-0.093	0.155	0.3596	0.5487
SOX4	rs11380611	21703686	R,I	0.6704	0.84	-0.044	0.074	0.3499	0.5542
SOX4	rs4712626	21701841	G,A	0.6545	0.8328	-0.043	0.073	0.3467	0.556
SOX4	rs6933506	21673857	T,C	0.9717	0.871	-0.111	0.191	0.3405	0.5596
SOX4	rs78378200	21647275	T,C	0.985	0.7319	0.179	0.309	0.3353	0.5626
SOX4	rs116016141	21687920	C,T	0.988	0.5009	-0.229	0.397	0.3337	0.5635

SOX4	rs1740832	21646725	A,G	0.756	0.938	-0.045	0.078	0.3321	0.5644
SOX4	rs150555050	21561633	G,A	0.9894	0.5125	-0.214	0.372	0.3319	0.5646
SOX4	rs4327678	21619771	T,C	0.7132	0.9834	-0.04	0.069	0.3311	0.565
SOX4	rs59730691	21701056	C,T	0.6717	0.8117	-0.043	0.075	0.3295	0.566
SOX4	rs7761844	21701456	G,A	0.6722	0.8149	-0.043	0.075	0.3289	0.5663
SOX4	rs62406887	21701319	C,T	0.6717	0.8135	-0.043	0.075	0.3288	0.5664
SOX4	rs112153247	21701183	C,T	0.6716	0.8121	-0.043	0.075	0.3275	0.5671
SOX4	rs7761575	21701475	C,T	0.672	0.8148	-0.043	0.075	0.3275	0.5671
SOX4	rs13362741	21700158	A,C	0.6707	0.8039	-0.043	0.075	0.3253	0.5684
SOX4	rs7762010	21701594	G,A	0.6719	0.8177	-0.043	0.075	0.325	0.5686
SOX4	rs7761595	21701550	A,G	0.6721	0.8165	-0.043	0.075	0.3249	0.5687
SOX4	rs2180419	21728317	A,G	0.4028	0.9843	0.036	0.063	0.3242	0.5691
SOX4	rs11327351	21623643	D,R	0.6711	0.9267	-0.039	0.069	0.3237	0.5694
SOX4	rs10636012	21727515	I,R	0.4062	0.9929	0.036	0.063	0.3207	0.5712
SOX4	rs4712629	21702103	A,G	0.6716	0.83	-0.042	0.074	0.319	0.5722
SOX4	rs4712630	21702161	T,C	0.6716	0.8305	-0.042	0.074	0.3188	0.5723
SOX4	rs4712627	21701892	C,T	0.6719	0.828	-0.042	0.074	0.318	0.5728
SOX4	rs11751574	21702901	G,A	0.6716	0.8382	-0.042	0.074	0.3176	0.573
SOX4	rs62403969	21702409	A,C	0.6716	0.8327	-0.042	0.074	0.3168	0.5736
SOX4	rs62406886	21701119	T,C	0.6631	0.8167	-0.042	0.074	0.3157	0.5742
SOX4	rs1744884	21663449	G,A	0.7593	0.786	-0.048	0.085	0.3147	0.5748
SOX4	rs1740867	21663105	C,T	0.7594	0.7883	-0.047	0.085	0.3143	0.5751
SOX4	rs7744078	21727822	G,C	0.4006	0.9944	0.035	0.063	0.3139	0.5753
SOX4	rs2328624	21703736	G,C	0.672	0.8448	-0.041	0.073	0.3129	0.5759
SOX4	rs6927945	21703341	T,C	0.672	0.841	-0.041	0.074	0.3127	0.576
SOX4	rs9460669	21729251	A,G	0.4053	0.9459	0.036	0.064	0.3108	0.5772
SOX4	rs6933751	21704108	T,C	0.672	0.8471	-0.041	0.073	0.3104	0.5774
SOX4	rs9466160	21722771	A,G	0.9736	0.8106	-0.113	0.202	0.3094	0.5781
SOX4	rs7764209	21727755	A,T	0.4006	0.9953	0.035	0.063	0.3084	0.5787
SOX4	rs2328625	21703880	T,C	0.6717	0.8446	-0.041	0.073	0.308	0.5789
SOX4	rs2328626	21703885	C,T	0.6717	0.8448	-0.041	0.073	0.308	0.5789
SOX4	rs1744862	21629881	C,A	0.6612	0.9531	-0.037	0.068	0.3072	0.5794
SOX4	rs1744863	21629887	A,G	0.6612	0.9532	-0.037	0.068	0.3072	0.5794
SOX4	rs57442902	21704602	C,T	0.6719	0.8494	-0.04	0.073	0.3053	0.5806
SOX4	rs9466126	21601762	A,C	0.9836	0.9467	-0.128	0.232	0.3046	0.581
SOX4	rs1744850	21618916	G,T	0.7128	0.9828	-0.038	0.069	0.303	0.582
SOX4	rs1830667	21728089	G,T	0.4027	0.9868	0.035	0.063	0.3025	0.5823
SOX4	rs67418443	21554442	C,T	0.9266	0.876	-0.063	0.116	0.2938	0.5878
SOX4	rs146516474	21554348	C,T	0.9266	0.8769	-0.063	0.116	0.2931	0.5882
SOX4	rs139419250	21696871	R,I	0.9475	0.5307	-0.086	0.159	0.293	0.5883
SOX4	rs6900485	21697055	A,T	0.9471	0.5382	-0.085	0.158	0.2922	0.5888
SOX4	rs73392011	21569756	C,T	0.9671	0.445	0.129	0.239	0.2919	0.589
SOX4	rs7740084	21727531	A,G	0.4005	0.9983	0.034	0.063	0.291	0.5896
SOX4	rs6900676	21697176	A,G	0.9471	0.5384	-0.085	0.158	0.2907	0.5898
SOX4	rs1407655	21727902	G,A	0.4028	0.9882	0.034	0.063	0.2865	0.5925

SOX4	rs76944255	21582643	G,A	0.981	0.4687	-0.171	0.32	0.2861	0.5928
SOX4	rs7754999	21705723	C,T	0.6691	0.8543	-0.039	0.073	0.2842	0.5939
SOX4	rs9466155	21707222	G,A	0.6726	0.8766	-0.038	0.072	0.2821	0.5954
SOX4	rs114266456	21633347	G,A	0.9661	0.7099	-0.111	0.208	0.2818	0.5955
SOX4	rs150766348	21706424	R,D	0.6681	0.8073	-0.04	0.075	0.2817	0.5956
SOX4	rs145778004	21696926	R,I	0.9468	0.5319	-0.084	0.158	0.2817	0.5956
SOX4	rs1853345	21742346	T,C	0.73	0.9808	0.035	0.066	0.2799	0.5968
SOX4	rs111526226	21567385	T,C	0.968	0.4673	0.123	0.236	0.27	0.6033
SOX4	rs2749682	21641716	A,G	0.6939	0.947	-0.037	0.072	0.2694	0.6037
SOX4	rs80061387	21579793	T,C	0.9808	0.4585	-0.167	0.322	0.2681	0.6046
SOX4	rs55686449	21702505	T,C	0.6687	0.8289	-0.038	0.074	0.2652	0.6065
SOX4	rs1744851	21619810	T,C	0.7153	0.9819	-0.036	0.069	0.2643	0.6072
SOX4	rs1740825	21653689	T,C	0.7477	0.8767	-0.04	0.078	0.2636	0.6076
SOX4	rs1744865	21631078	A,C	0.6628	0.9515	-0.035	0.068	0.262	0.6087
SOX4	rs148261621	21712086	R,I	0.7162	0.7178	-0.043	0.083	0.2601	0.6101
SOX4	rs6904795	21703099	A,G	0.6649	0.8486	-0.037	0.073	0.2588	0.611
SOX4	rs36093392	21601725	D,R	0.7127	0.8142	-0.037	0.074	0.255	0.6136
SOX4	rs68015368	21645499	I,R	0.8315	0.7435	-0.049	0.097	0.2524	0.6154
SOX4	rs116216476	21700308	T,C	0.9886	0.6467	-0.165	0.329	0.252	0.6157
SOX4	rs78474141	21604475	G,T	0.9839	0.9516	-0.112	0.225	0.2485	0.6181
SOX4	rs78345714	21734098	T,C	0.9849	0.6839	-0.131	0.265	0.2463	0.6197
SOX4	rs1740840	21627378	G,A	0.7156	0.9808	-0.034	0.069	0.246	0.6199
SOX4	rs144178641	21622568	C,T	0.984	0.926	-0.112	0.226	0.2458	0.6201
SOX4	rs77354845	21621783	A,G	0.9841	0.9371	-0.11	0.225	0.2416	0.6231
SOX4	rs1740850	21618925	C,G	0.7147	0.9839	-0.034	0.069	0.2393	0.6247
SOX4	rs78712702	21700242	T,A	0.9843	0.4664	0.189	0.388	0.2364	0.6268
SOX4	rs4712628	21702070	C,G	0.6704	0.828	-0.036	0.074	0.2361	0.6271
SOX4	rs77273443	21620705	G,A	0.984	0.938	-0.109	0.224	0.2354	0.6276
SOX4	rs62403971	21702621	T,C	0.6704	0.8339	-0.036	0.074	0.2322	0.6299
SOX4	rs148775927	21677832	C,G	0.9884	0.5129	0.218	0.452	0.2319	0.6301
SOX4	rs9466129	21610137	C,G	0.9838	0.9565	-0.105	0.222	0.2227	0.637
SOX4	rs16885170	21716554	G,A	0.8229	0.9708	0.038	0.08	0.222	0.6376
SOX4	rs73737568	21667546	A,G	0.9719	0.8789	-0.089	0.189	0.2206	0.6386
SOX4	rs7760462	21730877	G,C	0.4165	0.9846	0.028	0.062	0.2107	0.6462
SOX4	rs76475505	21611890	T,G	0.9837	0.9609	-0.101	0.22	0.2097	0.647
SOX4	rs1744872	21638599	C,T	0.7505	0.8975	-0.036	0.079	0.2073	0.6489
SOX4	rs1744871	21638566	C,T	0.7505	0.8974	-0.036	0.079	0.207	0.6492
SOX4	rs1744873	21638871	C,T	0.7506	0.8981	-0.036	0.079	0.2059	0.65
SOX4	rs113975012	21712110	A,T	0.9843	0.5172	-0.164	0.363	0.2053	0.6505
SOX4	rs9460650	21615371	T,C	0.9841	0.9776	-0.099	0.22	0.2035	0.6519
SOX4	rs78584681	21743570	R,D	0.7497	0.6177	0.04	0.088	0.2034	0.652
SOX4	rs10643502	21641556	T,C	0.688	0.853	-0.033	0.074	0.1995	0.6551
SOX4	rs9460649	21614884	G,A	0.9843	0.994	-0.097	0.219	0.1953	0.6586
SOX4	rs9460655	21641564	C,T	0.6926	0.8571	-0.032	0.074	0.1938	0.6598
SOX4	rs7738506	21702690	A,T	0.9888	0.6716	-0.144	0.328	0.1931	0.6603

SOX4	rs79753782	21594201	C,A	0.9506	0.6778	-0.078	0.177	0.1925	0.6608
SOX4	rs7755254	21699892	C,T	0.9389	0.6037	-0.063	0.143	0.1922	0.6611
SOX4	rs7775517	21699901	T,G	0.9389	0.6039	-0.063	0.143	0.1922	0.6611
SOX4	rs1744885	21670816	A,G	0.4476	0.9803	0.031	0.07	0.1919	0.6613
SOX4	rs79164129	21601917	T,C	0.9855	0.3283	0.201	0.459	0.1906	0.6624
SOX4	rs141007801	21722788	R,I	0.8394	0.8482	-0.042	0.096	0.1875	0.665
SOX4	rs1744859	21626395	T,C	0.685	0.9803	-0.029	0.067	0.1838	0.6681
SOX4	rs7739131	21727148	C,T	0.7149	0.9794	0.029	0.068	0.1837	0.6682
SOX4	rs528217121	21702677	R,D	0.9888	0.6785	-0.14	0.327	0.1837	0.6682
SOX4	rs1740841	21627053	G,T	0.6852	0.9798	-0.029	0.067	0.1827	0.6691
SOX4	rs1744849	21612949	A,G	0.7238	1	-0.03	0.07	0.1826	0.6691
SOX4	rs1744858	21626190	T,C	0.6849	0.9807	-0.029	0.067	0.1806	0.6709
SOX4	rs117971178	21674146	C,T	0.9852	0.5427	-0.141	0.332	0.1806	0.6709
SOX4	rs74831068	21693978	T,C	0.8189	0.778	-0.039	0.092	0.1775	0.6735
SOX4	rs2759360	21653532	A,G	0.7648	0.8809	-0.033	0.079	0.1766	0.6743
SOX4	rs149455365	21553549	R,D	0.9357	0.9431	-0.051	0.121	0.1737	0.6768
SOX4	rs1740830	21648615	C,T	0.867	0.7367	-0.045	0.109	0.1708	0.6794
SOX4	rs370328808	21641504	D,R	0.7285	0.8536	-0.032	0.078	0.1683	0.6816
SOX4	rs529643978	21641557	D,R	0.7285	0.854	-0.032	0.078	0.1682	0.6817
SOX4	rs561593549	21641496	C,T	0.7285	0.8534	-0.032	0.078	0.1682	0.6817
SOX4	rs562290828	21641555	D,R	0.7285	0.8538	-0.032	0.078	0.1682	0.6817
SOX4	rs113411153	21641562	D,R	0.7285	0.8541	-0.032	0.078	0.1681	0.6818
SOX4	rs6928871	21697812	T,C	0.9391	0.571	-0.06	0.147	0.1673	0.6826
SOX4	rs76144443	21697748	A,G	0.9391	0.5709	-0.06	0.147	0.167	0.6828
SOX4	rs6929045	21697861	T,C	0.9391	0.5712	-0.06	0.147	0.1664	0.6833
SOX4	rs6906248	21697889	A,G	0.9391	0.5714	-0.06	0.147	0.1657	0.684
SOX4	rs6906888	21697966	G,A	0.9391	0.5729	-0.06	0.147	0.1646	0.6849
SOX4	rs6925407	21724100	G,C	0.9884	0.9399	-0.122	0.299	0.1647	0.6849
SOX4	rs6929294	21698041	T,G	0.9394	0.5831	-0.058	0.146	0.1568	0.6921
SOX4	rs6929483	21698094	T,C	0.9394	0.583	-0.057	0.146	0.1554	0.6934
SOX4	rs78030412	21631511	T,C	0.9731	0.7032	-0.097	0.245	0.1554	0.6934
SOX4	rs58699714	21698897	C,T	0.9395	0.5888	-0.057	0.145	0.1521	0.6965
SOX4	rs112047759	21699028	T,C	0.9395	0.5892	-0.057	0.145	0.1514	0.6972
SOX4	rs112103466	21699063	T,C	0.9395	0.5894	-0.056	0.145	0.1509	0.6977
SOX4	rs7770799	21553258	A,C	0.9337	0.9722	-0.046	0.119	0.1458	0.7026
SOX4	rs79381952	21699489	T,C	0.9398	0.6026	-0.055	0.144	0.1427	0.7056
SOX4	rs141253251	21567552	G,A	0.9772	0.4147	-0.118	0.312	0.1418	0.7065
SOX4	rs57690989	21652353	T,G	0.9629	0.903	-0.059	0.156	0.1413	0.707
SOX4	rs114981716	21562453	G,A	0.977	0.3896	-0.12	0.321	0.1385	0.7098
SOX4	rs147960757	21606492	G,T	0.9772	0.8203	-0.092	0.248	0.138	0.7102
SOX4	rs75062640	21722533	A,G	0.9823	0.8162	-0.093	0.254	0.134	0.7143
SOX4	rs6939472	21661019	G,C	0.7866	0.7792	-0.032	0.089	0.1324	0.7159
SOX4	rs35578300	21741886	R,D	0.7077	0.8309	0.026	0.072	0.1318	0.7165
SOX4	rs146269383	21601263	G,A	0.9772	0.8168	-0.09	0.248	0.1317	0.7167
SOX4	rs76428292	21629756	C,A	0.974	0.7112	-0.09	0.248	0.1303	0.7182

SOX4	rs13220312	21671856	A,G	0.9734	0.7398	-0.079	0.222	0.1262	0.7224
SOX4	rs1744874	21640902	T,C	0.7492	0.9047	-0.028	0.078	0.1255	0.7231
SOX4	rs183503583	21638847	G,A	0.9885	0.5492	0.136	0.384	0.1255	0.7231
SOX4	rs78523587	21614133	G,A	0.9764	0.7872	-0.088	0.249	0.1253	0.7233
SOX4	rs35210528	21667781	T,C	0.9732	0.7254	-0.079	0.224	0.1244	0.7243
SOX4	rs71563994	21668435	T,C	0.9731	0.7255	-0.078	0.223	0.1223	0.7266
SOX4	rs35922627	21667988	A,T	0.973	0.7238	-0.078	0.223	0.1212	0.7277
SOX4	rs60309622	21698465	C,T	0.9414	0.5673	-0.052	0.151	0.1203	0.7287
SOX4	rs7746995	21686064	G,A	0.9859	0.4629	-0.13	0.381	0.1159	0.7336
SOX4	rs201513044	21589010	R,D	0.9897	0.4337	-0.143	0.422	0.1155	0.734
SOX4	rs78502915	21591248	G,T	0.9567	0.6759	-0.062	0.186	0.1115	0.7385
SOX4	rs2328627	21714362	G,A	0.9889	0.782	-0.1	0.315	0.1015	0.75
SOX4	rs2876599	21714103	C,G	0.9889	0.7808	-0.1	0.315	0.101	0.7507
SOX4	rs12191413	21740465	A,T	0.7737	0.8456	0.025	0.08	0.1	0.7519
SOX4	rs1740843	21623041	G,A	0.6876	0.9919	-0.021	0.068	0.0993	0.7527
SOX4	rs116878740	21665291	A,G	0.9855	0.5757	-0.104	0.329	0.0991	0.7529
SOX4	rs78098947	21713740	C,T	0.989	0.7788	-0.1	0.316	0.099	0.753
SOX4	rs140643662	21664544	G,A	0.9855	0.5752	-0.104	0.329	0.099	0.753
SOX4	rs9460666	21726380	G,A	0.9296	0.3512	-0.061	0.196	0.0984	0.7537
SOX4	rs116598598	21654884	A,T	0.983	0.5411	-0.1	0.32	0.0971	0.7554
SOX4	rs1740854	21680732	A,C	0.6112	0.9639	-0.021	0.067	0.0965	0.756
SOX4	rs547687648	21729656	R,I	0.7892	0.8727	-0.025	0.081	0.0953	0.7576
SOX4	rs117537289	21661595	C,T	0.9854	0.5671	-0.101	0.33	0.0931	0.7603
SOX4	rs6934807	21653677	A,G	0.9709	0.9814	-0.054	0.176	0.093	0.7604
SOX4	rs4712625	21699342	G,A	0.8761	0.9937	0.029	0.096	0.0904	0.7636
SOX4	rs12528435	21562732	G,A	0.8866	0.355	0.049	0.162	0.0904	0.7637
SOX4	rs111404042	21565201	G,A	0.9548	0.5207	-0.061	0.202	0.0902	0.764
SOX4	rs1744864	21630684	C,T	0.7008	1	-0.02	0.068	0.0898	0.7645
SOX4	rs912025	21716058	C,G	0.8371	0.9358	0.025	0.084	0.0896	0.7647
SOX4	rs7739585	21632295	A,C	0.6764	0.9279	-0.021	0.071	0.0884	0.7663
SOX4	rs540918539	21717464	R,D	0.9882	0.804	-0.09	0.305	0.0875	0.7674
SOX4	rs116779637	21718919	G,T	0.9886	0.7935	-0.091	0.311	0.0852	0.7704
SOX4	rs12374633	21654974	G,A	0.9698	0.9337	-0.051	0.177	0.0839	0.7721
SOX4	rs140423760	21646093	C,A	0.9884	0.552	0.111	0.383	0.0837	0.7724
SOX4	rs145907846	21729085	G,A	0.9868	0.8724	-0.082	0.285	0.0824	0.774
SOX4	rs57792403	21738640	R,D	0.4364	0.9838	0.017	0.062	0.0782	0.7798
SOX4	rs182063949	21738643	T,A	0.9864	0.6453	0.086	0.314	0.075	0.7842
SOX4	rs78937245	21738761	C,T	0.9864	0.6447	0.085	0.314	0.0733	0.7866
SOX4	rs7746424	21685920	C,T	0.9762	0.4981	0.077	0.286	0.0732	0.7868
SOX4	rs76857610	21685543	G,T	0.9888	0.4734	0.112	0.416	0.0723	0.788
SOX4	rs13211544	21619214	C,A	0.8478	0.3133	0.04	0.15	0.0712	0.7896
SOX4	rs73374488	21666188	G,A	0.9707	0.8902	-0.049	0.184	0.0708	0.7902
SOX4	rs7738599	21631790	A,G	0.9365	0.4203	0.055	0.208	0.0702	0.7911
SOX4	rs840982	21740321	T,C	0.4378	0.9967	0.016	0.062	0.0692	0.7925
SOX4	rs7739607	21632345	G,C	0.6821	0.9067	-0.019	0.072	0.0689	0.793

SOX4	rs1744876	21651003	T,C	0.8157	0.9901	0.021	0.082	0.0686	0.7933
SOX4	rs77258728	21734254	G,A	0.9872	0.709	0.081	0.31	0.0687	0.7933
SOX4	rs147596047	21733524	R,D	0.9872	0.709	0.081	0.31	0.0681	0.7941
SOX4	rs75935729	21733252	C,A	0.9872	0.709	0.081	0.31	0.0676	0.7949
SOX4	rs80309179	21644884	G,T	0.9894	0.4434	0.13	0.508	0.066	0.7972
SOX4	rs201453060	21648925	R,I	0.5221	0.4872	0.024	0.094	0.0653	0.7983
SOX4	rs9358450	21740882	A,G	0.746	0.858	0.019	0.074	0.0637	0.8008
SOX4	rs7746292	21685907	A,G	0.9762	0.4817	0.073	0.291	0.0627	0.8023
SOX4	rs111482236	21588455	T,C	0.9537	0.6111	-0.048	0.192	0.0618	0.8036
SOX4	rs117804382	21656810	C,T	0.9855	0.5625	-0.082	0.333	0.061	0.8049
SOX4	rs78584490	21732145	C,T	0.9872	0.7096	0.076	0.309	0.0607	0.8054
SOX4	rs149746556	21731479	R,D	0.9872	0.7098	0.076	0.309	0.0605	0.8057
SOX4	rs1744887	21674378	G,T	0.9679	0.3275	0.071	0.29	0.0602	0.8062
SOX4	rs71563995	21676342	A,G	0.9697	0.7188	-0.052	0.216	0.0592	0.8078
SOX4	rs11433545	21672216	R,I	0.5947	0.6034	0.021	0.088	0.0589	0.8083
SOX4	rs116187696	21639646	G,A	0.9868	0.5351	0.089	0.368	0.0583	0.8091
SOX4	rs840981	21740238	G,A	0.4381	1	0.015	0.061	0.0576	0.8104
SOX4	rs1620996	21602552	C,T	0.8959	0.8139	0.026	0.112	0.0561	0.8128
SOX4	rs1744875	21648534	C,A	0.4998	0.4732	0.022	0.096	0.0524	0.819
SOX4	rs9466145	21677060	A,C	0.6171	1	-0.015	0.065	0.0515	0.8205
SOX4	rs144306476	21721932	T,G	0.989	0.6617	-0.077	0.349	0.0487	0.8254
SOX4	rs1740860	21678055	T,C	0.7991	0.7824	-0.019	0.089	0.0463	0.8297
SOX4	rs1744889	21676795	A,G	0.6165	0.9936	-0.014	0.066	0.0459	0.8304
SOX4	rs11330136	21629471	D,R	0.7	0.9778	-0.015	0.069	0.0458	0.8305
SOX4	rs1740828	21649085	A,G	0.5436	0.4642	0.02	0.093	0.0455	0.8311
SOX4	rs1744890	21678059	A,G	0.8017	0.7924	-0.019	0.089	0.0447	0.8325
SOX4	rs1740866	21664729	T,G	0.7801	0.807	-0.018	0.088	0.0421	0.8373
SOX4	rs61215435	21721256	C,T	0.9893	0.7083	-0.065	0.327	0.0399	0.8416
SOX4	rs59880840	21556245	G,A	0.9598	0.3138	-0.055	0.275	0.0398	0.8418
SOX4	rs61157774	21556217	C,T	0.9598	0.3134	-0.054	0.275	0.0391	0.8432
SOX4	rs145825998	21695945	T,G	0.9899	0.5601	0.08	0.405	0.0386	0.8443
SOX4	rs1744847	21695888	C,T	0.9409	0.4743	0.037	0.191	0.038	0.8455
SOX4	rs149699118	21633666	D,R	0.7515	0.8935	-0.015	0.078	0.0356	0.8504
SOX4	rs561618338	21639342	R,I	0.9855	0.4795	0.069	0.373	0.0347	0.8523
SOX4	rs80035391	21685357	G,A	0.8973	0.5163	-0.026	0.139	0.0345	0.8525
SOX4	rs115395409	21696639	C,T	0.99	0.5674	0.074	0.404	0.034	0.8538
SOX4	rs7772692	21696544	A,G	0.9472	0.5318	-0.031	0.168	0.0332	0.8555
SOX4	rs6456438	21632215	G,A	0.7029	0.9547	-0.013	0.07	0.0331	0.8556
SOX4	rs141900910	21647244	C,T	0.9864	0.543	0.066	0.366	0.0327	0.8566
SOX4	rs201884896	21657694	D,R	0.9455	0.3238	-0.045	0.255	0.0306	0.8611
SOX4	rs7754702	21696403	T,C	0.9482	0.5267	-0.029	0.171	0.0292	0.8642
SOX4	rs375807437	21686609	R,D	0.5634	0.7421	0.012	0.072	0.0292	0.8644
SOX4	rs1740852	21608979	T,C	0.895	0.9932	0.017	0.1	0.029	0.8648
SOX4	rs78471563	21679073	T,A	0.9895	0.9404	-0.053	0.316	0.0281	0.8668
SOX4	rs2749684	21676485	C,T	0.6168	0.9872	-0.011	0.066	0.027	0.8694

SOX4	rs112101248	21683625	T,C	0.9893	0.5442	0.059	0.36	0.0265	0.8708
SOX4	rs1744870	21638485	A,C	0.734	0.9006	-0.012	0.077	0.0257	0.8727
SOX4	rs61661762	21588463	A,G	0.9883	0.3149	-0.081	0.504	0.0257	0.8727
SOX4	rs200447839	21689115	R,D	0.8701	0.7188	-0.017	0.108	0.0245	0.8757
SOX4	rs76257188	21688091	T,G	0.8712	0.7018	-0.017	0.11	0.0238	0.8774
SOX4	rs77518511	21690391	A,G	0.9839	0.4553	-0.055	0.359	0.0238	0.8774
SOX4	rs1973987	21687659	G,T	0.8711	0.6956	-0.017	0.11	0.0229	0.8797
SOX4	rs117538721	21647180	T,C	0.986	0.5245	0.055	0.366	0.0223	0.8814
SOX4	rs71563992	21655825	G,T	0.9888	0.8713	-0.047	0.319	0.0218	0.8825
SOX4	rs1740863	21670641	C,T	0.6246	0.9994	0.01	0.067	0.0214	0.8837
SOX4	rs5874828	21692948	R,D	0.8716	0.725	-0.016	0.108	0.0214	0.8837
SOX4	rs141673420	21695454	T,C	0.9835	0.3745	-0.061	0.42	0.0208	0.8852
SOX4	rs78278852	21688571	G,A	0.9753	0.5113	0.04	0.277	0.0204	0.8863
SOX4	rs142460847	21687632	A,G	0.9751	0.5044	0.039	0.278	0.0196	0.8885
SOX4	rs148767257	21687606	C,T	0.9752	0.5064	0.039	0.278	0.0194	0.8891
SOX4	rs57761609	21683420	D,R	0.6127	0.8292	-0.01	0.072	0.0194	0.8892
SOX4	rs145952396	21677173	C,T	0.9854	0.5637	-0.046	0.332	0.0192	0.8899
SOX4	rs77992585	21687331	G,A	0.8724	0.6862	-0.015	0.112	0.0179	0.8936
SOX4	rs12524788	21690518	T,G	0.8725	0.7375	-0.014	0.108	0.0178	0.894
SOX4	rs115180462	21686653	G,C	0.9752	0.5032	0.037	0.279	0.0178	0.894
SOX4	rs7747757	21686714	C,T	0.9752	0.5035	0.037	0.278	0.0175	0.8947
SOX4	rs7746895	21686168	C,A	0.9752	0.5028	0.036	0.279	0.017	0.8961
SOX4	rs1321253	21689813	T,A	0.8723	0.7273	-0.014	0.109	0.0169	0.8965
SOX4	rs79684204	21687368	A,C	0.9748	0.5098	0.035	0.274	0.0162	0.8987
SOX4	rs75629001	21689221	C,T	0.8716	0.708	-0.014	0.11	0.0155	0.9009
SOX4	rs113889001	21695381	A,C	0.9496	0.5091	-0.022	0.18	0.0147	0.9034
SOX4	rs7746432	21685933	C,T	0.9755	0.5041	0.034	0.28	0.0144	0.9046
SOX4	rs144222210	21726206	C,T	0.987	0.7975	0.036	0.307	0.0137	0.9069
SOX4	rs79232286	21689146	G,A	0.8483	0.7428	-0.012	0.101	0.0136	0.907
SOX4	rs80349490	21615188	T,C	0.9491	0.4807	-0.025	0.222	0.0125	0.9111
SOX4	rs1744860	21627046	A,G	0.6998	0.9875	-0.007	0.069	0.0118	0.9136
SOX4	rs1744857	21626067	T,C	0.6993	0.9886	-0.007	0.069	0.0112	0.9157
SOX4	rs1744878	21652230	A,C	0.8076	0.9338	-0.009	0.085	0.0108	0.9173
SOX4	rs6912946	21659978	A,T	0.8051	0.821	-0.009	0.09	0.0105	0.9183
SOX4	rs111928481	21648542	T,A	0.9738	0.8848	0.02	0.201	0.0103	0.9191
SOX4	rs1555287	21686091	G,A	0.5629	0.8575	0.006	0.067	0.0088	0.9253
SOX4	rs7754895	21696533	T,C	0.9459	0.5325	-0.015	0.165	0.008	0.9288
SOX4	rs111405274	21694954	A,G	0.9508	0.5151	-0.016	0.183	0.008	0.9288
SOX4	rs1973986	21687571	A,T	0.5557	0.8895	0.006	0.066	0.0078	0.9294
SOX4	rs79337490	21695025	T,C	0.9508	0.5151	-0.016	0.183	0.0079	0.9294
SOX4	rs66735249	21686666	D,R	0.551	0.8357	0.006	0.068	0.0077	0.9303
SOX4	rs545611803	21688770	R,I	0.8158	0.533	-0.009	0.108	0.0065	0.9356
SOX4	rs75051132	21589799	T,A	0.98	0.6365	0.022	0.305	0.0054	0.9415
SOX4	rs2181318	21691468	T,C	0.549	0.9168	0.005	0.065	0.0051	0.9431
SOX4	rs1475149	21688142	G,A	0.5662	0.9247	0.004	0.065	0.0047	0.9451

SOX4	rs146017644	21640727	C,T	0.9833	0.5529	0.021	0.326	0.004	0.9497
SOX4	rs7772258	21686985	T,C	0.8466	0.7118	-0.006	0.103	0.0039	0.95
SOX4	rs143796183	21587351	G,A	0.9851	0.3168	0.033	0.538	0.0038	0.9506
SOX4	rs1740839	21629928	G,A	0.7114	0.9827	-0.004	0.069	0.0036	0.9518
SOX4	rs1740864	21668282	G,A	0.6096	0.9094	0.004	0.069	0.003	0.9563
SOX4	rs4710983	21734202	C,T	0.767	0.9462	-0.004	0.073	0.003	0.9564
SOX4	rs150435139	21707497	A,G	0.9874	0.4469	0.021	0.409	0.0027	0.9585
SOX4	rs201995762	21706002	R,I	0.9873	0.4393	0.02	0.411	0.0024	0.9609
SOX4	rs1744881	21657548	G,A	0.8047	0.8556	-0.004	0.088	0.0021	0.9632
SOX4	rs143393812	21633911	C,T	0.9816	0.5752	-0.013	0.298	0.0019	0.9657
SOX4	rs77708052	21605375	C,T	0.98	0.7948	-0.012	0.273	0.0018	0.966
SOX4	rs35605844	21674022	D,R	0.6185	0.9309	-0.003	0.069	0.0017	0.9672
SOX4	rs4712624	21693152	A,G	0.843	0.7383	-0.003	0.1	0.0008	0.9776
SOX4	rs6918842	21691009	C,T	0.5679	0.9924	-0.001	0.062	0.0005	0.9814
SOX4	rs78529444	21722481	A,G	0.9876	0.8222	0.005	0.312	0.0003	0.9869
SOX4	rs530398575	21733586	R,I	0.8629	0.4934	0.002	0.126	0.0002	0.9878
SOX4	rs7772335	21696185	C,T	0.8913	0.4593	-0.002	0.144	0.0002	0.9879
SOX4	rs115731554	21723090	C,T	0.9877	0.8291	0.005	0.311	0.0002	0.9881
SOX4	rs111357910	21723888	A,G	0.988	0.8511	0.004	0.311	0.0002	0.9894
SOX4	rs1744867	21634171	T,C	0.7381	0.8918	-0.001	0.078	0.0002	0.9898
SOX4	rs117061311	21683546	G,A	0.9853	0.4203	0.005	0.383	0.0001	0.9903
SOX4	rs149555362	21726144	T,C	0.9879	0.8456	0.003	0.311	0.0001	0.9922
SOX4	rs4712623	21688978	C,T	0.638	0.848	-0.001	0.068	0.0001	0.9928

Legend:

TRAIT: eQTL for which we are testing the marker's association with.

MARKER: SNP being tested.

BP: Base position of marker within chromosome 6.

ALLELES: Allele 1, Allele 2

FREQ1: Frequency of Allele 1

RSQR: Squared correlation between imputed and true genotypes.

EFFECT2: Beta estimate using Allele 2 as the risk allele.

STDERR: Standard error of beta estimate.

CHISQ: Chi-square statistic of association test.

PVALUE: P-value of association test.

**Supplementary Table 2b. Results from eQTL analysis of 6p22 region:
normal endometrial tissue**

TRAIT	MARKER	BP	ALLELES	FREQ1	RSQR	EFFECT2	STDERR	CHISQ	PVALUE
SNP association with CASC15 , sorted by p-value									
CASC15	rs545611803	21688770	R,I	0.8158	0.533	1.287	0.671	3.6777	0.05514
CASC15	rs76714354	21572464	A,G	0.9805	0.3806	86.951	47.656	3.329	0.06807
CASC15	rs74926222	21568994	C,T	0.9816	0.3776	86.545	47.443	3.3277	0.06812
CASC15	rs80177376	21744978	C,T	0.9048	0.3545	0.877	0.481	3.3259	0.0682
CASC15	rs73737558	21577723	A,G	0.9837	0.4293	72.47	43.444	2.7827	0.09529
CASC15	rs150345835	21568080	R,D	0.983	0.3784	74.073	45.702	2.6269	0.1051
CASC15	rs7772335	21696185	C,T	0.8913	0.4593	1.561	0.97	2.5929	0.1073
CASC15	rs78584681	21743570	R,D	0.7497	0.6177	0.648	0.414	2.4505	0.1175
CASC15	rs116779637	21718919	G,T	0.9886	0.7935	-235.67	151.091	2.4329	0.1188
CASC15	rs6925407	21724100	G,C	0.9884	0.9399	-13.662	8.759	2.4329	0.1188
CASC15	rs840985	21744508	G,A	0.5605	0.3093	-0.795	0.532	2.2322	0.1352
CASC15	rs61215435	21721256	C,T	0.9893	0.7083	-66.484	44.79	2.2033	0.1377
CASC15	rs78265086	21720541	T,C	0.9826	0.8636	-105.08	71.153	2.1808	0.1397
CASC15	rs79883278	21720741	C,T	0.9819	0.8353	-76.859	52.548	2.1393	0.1436
CASC15	rs142355149	21692662	A,C	0.9804	0.36	8.946	6.32	2.0036	0.1569
CASC15	rs6933476	21720156	G,A	0.9819	0.8936	-120.77	85.908	1.9764	0.1598
CASC15	rs1744847	21695888	C,T	0.9409	0.4743	1.439	1.046	1.8942	0.1687
CASC15	rs141673420	21695454	T,C	0.9835	0.3745	-4.593	3.348	1.8823	0.1701
CASC15	rs73392015	21591766	C,T	0.9671	0.4088	9.202	6.973	1.7415	0.1869
CASC15	rs74831068	21693978	T,C	0.8189	0.778	0.908	0.691	1.7252	0.189
CASC15	rs7772258	21686985	T,C	0.8466	0.7118	0.982	0.756	1.6861	0.1941
CASC15	rs79232286	21689146	G,A	0.8483	0.7428	0.953	0.742	1.6462	0.1995
CASC15	rs7746995	21686064	G,A	0.9859	0.4629	40.582	31.656	1.6435	0.1999
CASC15	rs80035391	21685357	G,A	0.8973	0.5163	1.156	0.918	1.5882	0.2076
CASC15	rs1853345	21742346	T,C	0.73	0.9808	0.389	0.31	1.5737	0.2097
CASC15	rs4712624	21693152	A,G	0.843	0.7383	0.916	0.74	1.5332	0.2156
CASC15	rs35578300	21741886	R,D	0.7077	0.8309	0.419	0.34	1.5131	0.2187
CASC15	rs1321253	21689813	T,A	0.8723	0.7273	0.917	0.754	1.479	0.2239
CASC15	rs12524788	21690518	T,G	0.8725	0.7375	0.905	0.748	1.4652	0.2261
CASC15	rs35210528	21667781	T,C	0.9732	0.7254	-115.19	95.517	1.4543	0.2278
CASC15	rs1973987	21687659	G,T	0.8711	0.6956	0.924	0.77	1.4388	0.2303
CASC15	rs77992585	21687331	G,A	0.8724	0.6862	0.927	0.778	1.4196	0.2335
CASC15	rs200447839	21689115	R,D	0.8701	0.7188	0.895	0.753	1.4126	0.2346
CASC15	rs76257188	21688091	T,G	0.8712	0.7018	0.913	0.769	1.41	0.2351
CASC15	rs75629001	21689221	C,T	0.8716	0.708	0.904	0.763	1.4038	0.2361
CASC15	rs77518511	21690391	A,G	0.9839	0.4553	28.328	23.996	1.3936	0.2378
CASC15	rs71563994	21668435	T,C	0.9731	0.7255	-126.96	108.728	1.3635	0.2429
CASC15	rs9466140	21673293	A,G	0.9286	0.9271	154.988	134.676	1.3244	0.2498
CASC15	rs4712625	21699342	G,A	0.8761	0.9937	0.501	0.439	1.3042	0.2534

CASC15	rs35922627	21667988	A,T	0.973	0.7238	-118.61	104.164	1.2965	0.2549
CASC15	rs5874828	21692948	R,D	0.8716	0.725	0.854	0.755	1.2818	0.2576
CASC15	rs7739666	21718260	T,C	0.9818	0.939	-619.52	548.173	1.2773	0.2584
CASC15	rs138380902	21731187	R,D	0.9079	0.9299	0.445	0.406	1.197	0.2739
CASC15	rs117061311	21683546	G,A	0.9853	0.4203	105.667	96.808	1.1914	0.275
CASC15	rs115395409	21696639	C,T	0.99	0.5674	7.819	7.343	1.1341	0.2869
CASC15	rs145825998	21695945	T,G	0.9899	0.5601	7.893	7.429	1.1287	0.288
CASC15	rs1555529	21691704	A,G	0.7822	0.9942	-0.398	0.387	1.0531	0.3048
CASC15	rs9368333	21743631	A,C	0.9748	0.5254	83.563	81.588	1.049	0.3057
CASC15	rs113975012	21712110	A,T	0.9843	0.5172	9.096	9.107	0.9975	0.3179
CASC15	rs12191413	21740465	A,T	0.7737	0.8456	0.344	0.346	0.988	0.3202
CASC15	rs7754895	21696533	T,C	0.9459	0.5325	1.953	2.007	0.9466	0.3306
CASC15	rs111405274	21694954	A,G	0.9508	0.5151	2.325	2.391	0.9454	0.3309
CASC15	rs79337490	21695025	T,C	0.9508	0.5151	2.32	2.387	0.9445	0.3311
CASC15	rs7772692	21696544	A,G	0.9472	0.5318	1.961	2.022	0.9407	0.3321
CASC15	rs138387168	21716280	C,T	0.9765	0.7359	16.621	17.151	0.9392	0.3325
CASC15	rs72175369	21738076	R,D	0.9214	0.781	0.412	0.426	0.9354	0.3335
CASC15	rs113889001	21695381	A,C	0.9496	0.5091	2.241	2.338	0.9184	0.3379
CASC15	rs7775506	21729962	C,T	0.4216	0.9976	-0.289	0.302	0.9141	0.339
CASC15	rs7744188	21694601	T,C	0.9149	0.6416	1.455	1.542	0.8911	0.3452
CASC15	rs7754702	21696403	T,C	0.9482	0.5267	1.904	2.034	0.8757	0.3494
CASC15	rs9358448	21731736	G,A	0.9305	0.9625	0.387	0.415	0.872	0.3504
CASC15	rs9348484	21731460	C,G	0.93	0.9619	0.387	0.415	0.8717	0.3505
CASC15	rs9295513	21599766	G,A	0.9746	0.8988	138.59	150.123	0.8523	0.3559
CASC15	rs12189901	21726940	G,A	0.9308	0.9638	0.384	0.416	0.8518	0.3561
CASC15	rs7760462	21730877	G,C	0.4165	0.9846	-0.286	0.311	0.8477	0.3572
CASC15	rs547687648	21729656	R,I	0.7892	0.8727	0.337	0.367	0.8434	0.3584
CASC15	rs9368332	21731094	G,A	0.4156	0.9974	-0.284	0.31	0.8394	0.3596
CASC15	rs9460671	21731289	G,C	0.41	0.9868	-0.282	0.31	0.8247	0.3638
CASC15	rs7451817	21735497	A,C	0.9341	0.9124	0.377	0.416	0.8227	0.3644
CASC15	rs9358449	21732383	G,A	0.937	0.9915	0.371	0.413	0.8091	0.3684
CASC15	rs112039884	21729100	C,T	0.9274	0.9676	0.371	0.413	0.8087	0.3685
CASC15	rs75327712	21728829	G,A	0.9295	0.9778	0.371	0.413	0.8087	0.3685
CASC15	rs9358450	21740882	A,G	0.746	0.858	0.287	0.319	0.8083	0.3686
CASC15	rs10946466	21727456	C,A	0.9298	0.9928	0.37	0.413	0.8066	0.3691
CASC15	rs12206842	21734489	A,T	0.9372	1	0.37	0.413	0.8066	0.3691
CASC15	rs4712632	21732137	G,A	0.4138	0.9644	-0.277	0.31	0.802	0.3705
CASC15	rs77991965	21694060	G,A	0.9358	0.6372	1.732	1.935	0.8015	0.3706
CASC15	rs4710981	21732702	G,C	0.4166	0.9635	-0.275	0.309	0.7921	0.3735
CASC15	rs74785728	21611723	G,A	0.9819	0.9332	341.917	386.249	0.7836	0.376
CASC15	rs57792403	21738640	R,D	0.4364	0.9838	-0.269	0.304	0.7821	0.3765
CASC15	rs530398575	21733586	R,I	0.8629	0.4934	0.478	0.54	0.7819	0.3766
CASC15	rs78278852	21688571	G,A	0.9753	0.5113	4.474	5.085	0.774	0.379
CASC15	rs9366408	21742607	G,A	0.9822	0.9856	212.892	243.26	0.7659	0.3815
CASC15	rs148767257	21687606	C,T	0.9752	0.5064	4.441	5.09	0.7613	0.3829

CASC15	rs79684204	21687368 A,C	0.9748	0.5098	4.442	5.094	0.7602	0.3833
CASC15	rs9348483	21687390 G,T	0.7953	0.87	-0.344	0.396	0.7545	0.385
CASC15	rs142460847	21687632 A,G	0.9751	0.5044	4.419	5.094	0.7525	0.3857
CASC15	rs115180462	21686653 G,C	0.9752	0.5032	4.404	5.098	0.7465	0.3876
CASC15	rs7747757	21686714 C,T	0.9752	0.5035	4.404	5.098	0.7465	0.3876
CASC15	rs7775517	21699901 T,G	0.9389	0.6039	1.285	1.497	0.7366	0.3907
CASC15	rs7746895	21686168 C,A	0.9752	0.5028	4.377	5.101	0.7364	0.3908
CASC15	rs7755254	21699892 C,T	0.9389	0.6037	1.286	1.499	0.7358	0.391
CASC15	rs79381952	21699489 T,C	0.9398	0.6026	1.301	1.521	0.7322	0.3922
CASC15	rs840982	21740321 T,C	0.4378	0.9967	-0.259	0.303	0.7309	0.3926
CASC15	rs530522537	21694259 R,D	0.9305	0.6164	1.705	1.997	0.7291	0.3932
CASC15	rs7746424	21685920 C,T	0.9762	0.4981	4.383	5.138	0.7276	0.3937
CASC15	rs7746432	21685933 C,T	0.9755	0.5041	4.383	5.138	0.7276	0.3937
CASC15	rs79949484	21728966 G,A	0.9319	0.8819	0.39	0.457	0.7266	0.394
CASC15	rs840981	21740238 G,A	0.4381	1	-0.258	0.302	0.7265	0.394
CASC15	rs7746292	21685907 A,G	0.9762	0.4817	4.372	5.16	0.718	0.3968
CASC15	rs60309622	21698465 C,T	0.9414	0.5673	1.412	1.674	0.7115	0.3989
CASC15	rs112103466	21699063 T,C	0.9395	0.5894	1.366	1.62	0.7108	0.3992
CASC15	rs112047759	21699028 T,C	0.9395	0.5892	1.368	1.622	0.7105	0.3993
CASC15	rs58699714	21698897 C,T	0.9395	0.5888	1.37	1.627	0.7091	0.3997
CASC15	rs558880181	21699974 R,D	0.9241	0.5575	1.242	1.479	0.7047	0.4012
CASC15	rs6929294	21698041 T,G	0.9394	0.5831	1.408	1.684	0.6993	0.403
CASC15	rs6929483	21698094 T,C	0.9394	0.583	1.403	1.68	0.6978	0.4035
CASC15	rs149555362	21726144 T,C	0.9879	0.8456	3.206	3.853	0.6924	0.4054
CASC15	rs111357910	21723888 A,G	0.988	0.8511	3.154	3.792	0.6916	0.4056
CASC15	rs144222210	21726206 C,T	0.987	0.7975	3.205	3.853	0.6917	0.4056
CASC15	rs112837708	21696451 G,A	0.9648	0.4436	2.716	3.292	0.6805	0.4094
CASC15	rs115731554	21723090 C,T	0.9877	0.8291	3.114	3.782	0.6781	0.4102
CASC15	rs78529444	21722481 A,G	0.9876	0.8222	3.114	3.782	0.6781	0.4102
CASC15	rs75062640	21722533 A,G	0.9823	0.8162	3.098	3.771	0.6748	0.4114
CASC15	rs1740830	21648615 C,T	0.867	0.7367	0.471	0.578	0.6648	0.4149
CASC15	rs6906888	21697966 G,A	0.9391	0.5729	1.464	1.796	0.6642	0.4151
CASC15	rs4710983	21734202 C,T	0.767	0.9462	0.247	0.304	0.658	0.4173
CASC15	rs6906248	21697889 A,G	0.9391	0.5714	1.47	1.815	0.6565	0.4178
CASC15	rs6929045	21697861 T,C	0.9391	0.5712	1.47	1.817	0.6542	0.4186
CASC15	rs76144443	21697748 A,G	0.9391	0.5709	1.472	1.822	0.6523	0.4193
CASC15	rs6928871	21697812 T,C	0.9391	0.571	1.469	1.819	0.6519	0.4195
CASC15	rs9466144	21676886 G,T	0.943	0.852	76.419	95.19	0.6445	0.4221
CASC15	rs75122426	21580566 T,C	0.985	0.6235	235.574	294.356	0.6405	0.4235
CASC15	rs9460669	21729251 A,G	0.4053	0.9459	-0.254	0.319	0.6338	0.4259
CASC15	rs145960980	21729330 D,R	0.4093	0.9758	-0.25	0.315	0.6331	0.4262
CASC15	rs114455294	21693186 A,T	0.9731	0.5546	1.847	2.324	0.6317	0.4267
CASC15	rs9466153	21700048 C,T	0.9445	0.5887	1.27	1.615	0.6186	0.4316
CASC15	rs1744878	21652230 A,C	0.8076	0.9338	0.275	0.356	0.5974	0.4396
CASC15	rs114613272	21721382 C,T	0.984	0.8169	38.983	50.538	0.595	0.4405

CASC15	rs76857610	21685543	G,T	0.9888	0.4734	4.429	5.812	0.5806	0.4461
CASC15	rs35487983	21739331	R,D	0.6885	0.8315	0.259	0.341	0.5782	0.447
CASC15	rs9466160	21722771	A,G	0.9736	0.8106	14.205	18.72	0.5758	0.448
CASC15	rs144306476	21721932	T,G	0.989	0.6617	18.37	24.536	0.5605	0.454
CASC15	rs9460658	21684193	C,T	0.9792	0.347	2.056	2.792	0.5424	0.4615
CASC15	rs78345714	21734098	T,C	0.9849	0.6839	-0.911	1.238	0.5414	0.4619
CASC15	rs61661762	21588463	A,G	0.9883	0.3149	-1.188	1.657	0.5139	0.4734
CASC15	rs561391795	21725044	R,D	0.9346	0.4431	-1.164	1.64	0.5039	0.4778
CASC15	rs7739131	21727148	C,T	0.7149	0.9794	0.24	0.34	0.4977	0.4805
CASC15	rs139581361	21722128	G,A	0.9879	0.8119	53.19	75.668	0.4941	0.4821
CASC15	rs1744881	21657548	G,A	0.8047	0.8556	0.243	0.35	0.4837	0.4868
CASC15	rs2180419	21728317	A,G	0.4028	0.9843	-0.214	0.311	0.4722	0.492
CASC15	rs10636012	21727515	I,R	0.4062	0.9929	-0.212	0.308	0.4703	0.4928
CASC15	rs1830667	21728089	G,T	0.4027	0.9868	-0.211	0.31	0.4634	0.496
CASC15	rs111442391	21730723	C,T	0.9726	0.3086	-0.958	1.412	0.4607	0.4973
CASC15	rs13220312	21671856	A,G	0.9734	0.7398	113.646	167.565	0.46	0.4976
CASC15	rs75179770	21568397	C,T	0.9582	0.4017	1.12	1.652	0.4593	0.498
CASC15	rs1407655	21727902	G,A	0.4028	0.9882	-0.209	0.31	0.4542	0.5004
CASC15	rs7744078	21727822	G,C	0.4006	0.9944	-0.208	0.309	0.4524	0.5012
CASC15	rs61197304	21570213	G,A	0.9581	0.4232	1.088	1.619	0.4514	0.5017
CASC15	rs7764209	21727755	A,T	0.4006	0.9953	-0.207	0.309	0.4496	0.5025
CASC15	rs115733488	21695961	T,C	0.9892	0.5305	3.149	4.699	0.449	0.5028
CASC15	rs60459153	21570941	G,A	0.9572	0.4198	1.081	1.613	0.4489	0.5029
CASC15	rs1740825	21653689	T,C	0.7477	0.8767	0.224	0.336	0.4453	0.5046
CASC15	rs59880840	21556245	G,A	0.9598	0.3138	1.297	1.947	0.4438	0.5053
CASC15	rs7740084	21727531	A,G	0.4005	0.9983	-0.206	0.309	0.4439	0.5053
CASC15	rs185847252	21676018	G,A	0.9496	0.8487	-132.17	198.436	0.4436	0.5054
CASC15	rs61157774	21556217	C,T	0.9598	0.3134	1.297	1.947	0.4434	0.5055
CASC15	rs2759360	21653532	A,G	0.7648	0.8809	0.23	0.346	0.4419	0.5062
CASC15	rs145778004	21696926	R,I	0.9468	0.5319	1.472	2.243	0.4309	0.5115
CASC15	rs6912946	21659978	A,T	0.8051	0.821	0.226	0.346	0.4265	0.5137
CASC15	rs6900676	21697176	A,G	0.9471	0.5384	1.456	2.231	0.426	0.514
CASC15	rs6900485	21697055	A,T	0.9471	0.5382	1.454	2.234	0.4235	0.5152
CASC15	rs1740826	21651528	G,A	0.6892	0.9762	0.2	0.307	0.4225	0.5157
CASC15	rs1744877	21651554	T,C	0.6891	0.9768	0.199	0.307	0.4219	0.516
CASC15	rs139419250	21696871	R,I	0.9475	0.5307	1.453	2.241	0.4205	0.5167
CASC15	rs201453060	21648925	R,I	0.5221	0.4872	-0.3	0.464	0.4176	0.5181
CASC15	rs79853707	21699451	C,T	0.986	0.5502	1.429	2.218	0.415	0.5195
CASC15	rs6939472	21661019	G,C	0.7866	0.7792	0.221	0.344	0.4141	0.5199
CASC15	rs1744876	21651003	T,C	0.8157	0.9901	0.228	0.355	0.412	0.521
CASC15	rs111374956	21699545	G,C	0.9871	0.5681	1.415	2.206	0.4115	0.5212
CASC15	rs7739607	21632345	G,C	0.6821	0.9067	0.199	0.312	0.4084	0.5228
CASC15	rs113183700	21702524	A,G	0.9869	0.5842	1.21	1.897	0.4066	0.5237
CASC15	rs534329540	21629251	R,I	0.4972	0.5784	-0.241	0.381	0.4027	0.5257
CASC15	rs148775927	21677832	C,G	0.9884	0.5129	1.124	1.772	0.4026	0.5258

CASC15	rs111928162	21706372 T,C	0.9868	0.6035	1.061	1.675	0.4012	0.5265
CASC15	rs149746556	21731479 R,D	0.9872	0.7098	0.903	1.425	0.4009	0.5266
CASC15	rs78584490	21732145 C,T	0.9872	0.7096	0.903	1.425	0.4008	0.5267
CASC15	rs141765572	21679089 G,T	0.9877	0.5484	1.153	1.823	0.3999	0.5272
CASC15	rs75935729	21733252 C,A	0.9872	0.709	0.902	1.431	0.3971	0.5286
CASC15	rs147596047	21733524 R,D	0.9872	0.709	0.902	1.431	0.3968	0.5287
CASC15	rs78378200	21647275 T,C	0.985	0.7319	0.818	1.3	0.3962	0.529
CASC15	rs74323084	21645152 C,G	0.9857	0.7691	0.816	1.297	0.3959	0.5292
CASC15	rs149385127	21642947 G,A	0.9849	0.723	0.816	1.297	0.3954	0.5295
CASC15	rs10946462	21651830 C,T	0.6894	0.9828	0.192	0.306	0.3951	0.5296
CASC15	rs77258728	21734254 G,A	0.9872	0.709	0.901	1.433	0.3948	0.5298
CASC15	rs113815998	21709365 G,T	0.9608	0.7324	0.887	1.414	0.3938	0.5303
CASC15	rs7753199	21717706 G,A	0.9819	0.9391	379.269	604.363	0.3938	0.5303
CASC15	rs7757232	21717818 G,A	0.9819	0.9404	379.269	604.363	0.3938	0.5303
CASC15	rs7757467	21718123 C,T	0.9813	0.9676	758.537	1208.73	0.3938	0.5303
CASC15	rs549313068	21638634 R,D	0.9854	0.7268	0.814	1.299	0.3924	0.5311
CASC15	rs182063949	21738643 T,A	0.9864	0.6453	0.915	1.466	0.3896	0.5325
CASC15	rs78937245	21738761 C,T	0.9864	0.6447	0.915	1.466	0.3893	0.5326
CASC15	rs4712623	21688978 C,T	0.638	0.848	-0.231	0.374	0.3832	0.5359
CASC15	rs1740831	21647589 G,A	0.7131	0.9772	0.201	0.327	0.3777	0.5388
CASC15	rs116016141	21687920 C,T	0.988	0.5009	30.868	50.296	0.3767	0.5394
CASC15	rs141253251	21567552 G,A	0.9772	0.4147	1.014	1.661	0.3727	0.5415
CASC15	rs1740832	21646725 A,G	0.756	0.938	0.203	0.333	0.3711	0.5424
CASC15	rs114981716	21562453 G,A	0.977	0.3896	1.04	1.707	0.3707	0.5426
CASC15	rs7739585	21632295 A,C	0.6764	0.9279	0.185	0.304	0.3692	0.5435
CASC15	rs1744870	21638485 A,C	0.734	0.9006	0.206	0.341	0.3662	0.5451
CASC15	rs1744875	21648534 C,A	0.4998	0.4732	-0.278	0.461	0.3636	0.5465
CASC15	rs1744867	21634171 T,C	0.7381	0.8918	0.207	0.343	0.3628	0.547
CASC15	rs2749682	21641716 A,G	0.6939	0.947	0.2	0.333	0.3611	0.5479
CASC15	rs9295514	21636585 A,G	0.7107	0.9234	0.203	0.339	0.3585	0.5494
CASC15	rs56175726	21566498 G,A	0.9534	0.3503	0.993	1.665	0.3556	0.551
CASC15	rs1740860	21678055 T,C	0.7991	0.7824	0.193	0.325	0.3529	0.5525
CASC15	rs145907846	21729085 G,A	0.9868	0.8724	65.112	109.884	0.3511	0.5535
CASC15	rs1744865	21631078 A,C	0.6628	0.9515	0.177	0.298	0.3501	0.5541
CASC15	rs1740827	21650969 A,T	0.7378	0.9342	0.2	0.339	0.3491	0.5546
CASC15	rs1744879	21652741 A,G	0.6892	0.9997	0.178	0.302	0.3452	0.5569
CASC15	rs11757166	21652990 C,T	0.6883	0.9879	0.178	0.303	0.3433	0.5579
CASC15	rs1744880	21653046 A,G	0.6868	0.9845	0.178	0.303	0.3425	0.5584
CASC15	rs6456439	21645743 T,G	0.7125	0.9939	0.189	0.324	0.3416	0.5589
CASC15	rs1740867	21663105 C,T	0.7594	0.7883	0.194	0.336	0.3338	0.5634
CASC15	rs13211544	21619214 C,A	0.8478	0.3133	-0.446	0.775	0.3318	0.5646
CASC15	rs1744863	21629887 A,G	0.6612	0.9532	0.17	0.296	0.3291	0.5662
CASC15	rs1744884	21663449 G,A	0.7593	0.786	0.192	0.335	0.3284	0.5666
CASC15	rs1744862	21629881 C,A	0.6612	0.9531	0.17	0.296	0.3283	0.5667
CASC15	rs1744890	21678059 A,G	0.8017	0.7924	0.185	0.325	0.3254	0.5684

CASC15	rs1740866	21664729 T,G	0.7801	0.807	0.193	0.339	0.3239	0.5693
CASC15	rs1744882	21657561 T,G	0.7003	0.8473	0.178	0.315	0.3209	0.5711
CASC15	rs59493338	21646242 T,A	0.701	0.8468	0.191	0.339	0.3169	0.5735
CASC15	rs34954830	21632488 R,I	0.9584	0.5469	10.823	19.33	0.3135	0.5756
CASC15	rs79002033	21706995 C,T	0.9739	0.6771	5.53	9.909	0.3115	0.5768
CASC15	rs2749688	21658487 G,C	0.6992	0.8356	0.176	0.315	0.3113	0.5769
CASC15	rs111355896	21649454 I,R	0.7486	0.9074	0.187	0.338	0.3057	0.5803
CASC15	rs941990	21658881 A,G	0.6778	0.8561	0.172	0.313	0.3016	0.5828
CASC15	rs540918539	21717464 R,D	0.9882	0.804	253.687	478.565	0.281	0.596
CASC15	rs1740838	21632759 G,T	0.3851	0.7571	-0.177	0.334	0.2802	0.5966
CASC15	rs1740868	21660205 G,T	0.6798	0.8487	0.164	0.313	0.2753	0.5998
CASC15	rs571708107	21634038 D,R	0.6795	0.8686	0.168	0.321	0.2748	0.6001
CASC15	rs116878740	21665291 A,G	0.9855	0.5757	67.447	130.288	0.268	0.6047
CASC15	rs1740837	21633917 C,T	0.6783	0.9174	0.164	0.317	0.2672	0.6052
CASC15	rs1740833	21646435 A,G	0.6798	0.9621	0.158	0.306	0.2644	0.6071
CASC15	rs370328808	21641504 D,R	0.7285	0.8536	0.161	0.323	0.2474	0.6189
CASC15	rs529643978	21641557 D,R	0.7285	0.854	0.161	0.323	0.2475	0.6189
CASC15	rs561593549	21641496 C,T	0.7285	0.8534	0.161	0.323	0.2472	0.619
CASC15	rs113411153	21641562 D,R	0.7285	0.8541	0.161	0.323	0.247	0.6192
CASC15	rs562290828	21641555 D,R	0.7285	0.8538	0.16	0.323	0.2467	0.6194
CASC15	rs1740852	21608979 T,C	0.895	0.9932	-0.268	0.544	0.2431	0.622
CASC15	rs66647983	21633079 R,D	0.5368	0.3749	-0.229	0.467	0.2404	0.6239
CASC15	rs1620996	21602552 C,T	0.8959	0.8139	-0.296	0.606	0.2382	0.6255
CASC15	rs574039752	21629819 R,D	0.3639	0.9279	-0.139	0.289	0.2319	0.6301
CASC15	rs6456438	21632215 G,A	0.7029	0.9547	0.143	0.298	0.2305	0.6311
CASC15	rs36027263	21648358 I,R	0.7129	0.8819	0.163	0.341	0.2301	0.6314
CASC15	rs11438117	21660100 R,I	0.4211	0.4868	-0.183	0.382	0.2299	0.6316
CASC15	rs35612989	21663201 R,I	0.4311	0.4511	-0.198	0.414	0.2295	0.6319
CASC15	rs80349490	21615188 T,C	0.9491	0.4807	0.527	1.106	0.2268	0.6339
CASC15	rs1615194	21648442 T,C	0.7437	0.9296	0.158	0.335	0.2225	0.6372
CASC15	rs1740828	21649085 A,G	0.5436	0.4642	0.224	0.482	0.2171	0.6412
CASC15	rs1744864	21630684 C,T	0.7008	1	0.135	0.289	0.2172	0.6412
CASC15	rs140643662	21664544 G,A	0.9855	0.5752	54.646	119.159	0.2103	0.6465
CASC15	rs531584400	21574100 R,D	0.9506	0.471	0.532	1.171	0.2067	0.6494
CASC15	rs6456443	21716233 G,A	0.9818	0.9202	129.548	285.173	0.2064	0.6496
CASC15	rs59015153	21574306 T,A	0.9504	0.4712	0.53	1.168	0.2061	0.6499
CASC15	rs1740839	21629928 G,A	0.7114	0.9827	0.131	0.292	0.202	0.6531
CASC15	rs1617781	21608766 A,G	0.693	0.9819	-0.149	0.333	0.1998	0.6549
CASC15	rs60908846	21646239 I,R	0.758	0.8675	0.146	0.327	0.1995	0.6552
CASC15	rs1744874	21640902 T,C	0.7492	0.9047	0.152	0.34	0.1992	0.6554
CASC15	rs71563995	21676342 A,G	0.9697	0.7188	102.084	229.562	0.1978	0.6565
CASC15	rs1744871	21638566 C,T	0.7505	0.8974	0.152	0.342	0.1974	0.6568
CASC15	rs1744872	21638599 C,T	0.7505	0.8975	0.152	0.342	0.1972	0.657
CASC15	rs1744873	21638871 C,T	0.7506	0.8981	0.152	0.342	0.1969	0.6572
CASC15	rs11361021	21608909 D,R	0.6928	0.9683	-0.148	0.334	0.1962	0.6578

CASC15	rs9460655	21641564 C,T	0.6926	0.8571	0.146	0.33	0.1957	0.6582
CASC15	rs149699118	21633666 D,R	0.7515	0.8935	0.151	0.344	0.1937	0.6599
CASC15	rs75051132	21589799 T,A	0.98	0.6365	0.501	1.142	0.1923	0.661
CASC15	rs1740834	21645207 C,T	0.7742	0.9378	0.147	0.335	0.1917	0.6615
CASC15	rs1622043	21609285 A,G	0.6925	0.9814	-0.145	0.333	0.1909	0.6621
CASC15	rs117396734	21615374 A,T	0.9894	0.5869	14.492	33.182	0.1907	0.6623
CASC15	rs11330136	21629471 D,R	0.7	0.9778	0.126	0.293	0.1846	0.6675
CASC15	rs1744861	21627986 A,T	0.3793	0.9676	-0.122	0.286	0.1834	0.6685
CASC15	rs7756206	21635314 T,G	0.7423	0.8724	0.149	0.348	0.1826	0.6691
CASC15	rs201389513	21635326 D,R	0.7672	0.8696	0.147	0.344	0.1824	0.6693
CASC15	rs2749683	21635327 T,G	0.767	0.8784	0.149	0.35	0.1801	0.6713
CASC15	rs1740835	21637725 G,A	0.7724	0.8961	0.144	0.345	0.175	0.6757
CASC15	rs5874825	21634749 I,R	0.7699	0.8924	0.142	0.346	0.1698	0.6803
CASC15	rs1740836	21634644 G,A	0.7705	0.8935	0.142	0.345	0.1691	0.6809
CASC15	rs116443937	21600982 A,T	0.9889	0.6106	14.297	34.789	0.1689	0.6811
CASC15	rs78471563	21679073 T,A	0.9895	0.9404	-260.77	638.279	0.1669	0.6829
CASC15	rs118074543	21601297 C,G	0.9891	0.6166	14.068	34.526	0.166	0.6837
CASC15	rs7738599	21631790 A,G	0.9365	0.4203	-0.504	1.24	0.1654	0.6843
CASC15	rs2251647	21677746 C,A	0.9512	0.9786	-0.239	0.589	0.1646	0.685
CASC15	rs113534734	21596349 R,D	0.9404	0.7354	0.394	0.973	0.1639	0.6856
CASC15	rs115252874	21601345 A,C	0.9891	0.6163	13.833	34.518	0.1606	0.6886
CASC15	rs114266456	21633347 G,A	0.9661	0.7099	0.399	0.996	0.1602	0.689
CASC15	rs78502915	21591248 G,T	0.9567	0.6759	0.406	1.017	0.1598	0.6894
CASC15	rs77708052	21605375 C,T	0.98	0.7948	0.396	0.991	0.1596	0.6895
CASC15	rs111482236	21588455 T,C	0.9537	0.6111	0.413	1.034	0.1593	0.6898
CASC15	rs570404489	21689796 R,D	0.7798	0.3015	-0.38	0.955	0.1586	0.6905
CASC15	rs74329629	21583401 G,A	0.9656	0.5138	0.433	1.1	0.1547	0.6941
CASC15	rs79753782	21594201 C,A	0.9506	0.6778	0.388	0.992	0.1531	0.6956
CASC15	rs557872691	21603474 R,D	0.8825	0.5572	0.356	0.913	0.152	0.6967
CASC15	rs10643502	21641556 T,C	0.688	0.853	0.128	0.331	0.1492	0.6993
CASC15	rs150997476	21663402 A,T	0.9893	0.6383	-0.555	1.46	0.1443	0.7041
CASC15	rs114750919	21725361 C,G	0.9867	0.8444	-204.94	542.433	0.1427	0.7056
CASC15	rs9466128	21606679 G,T	0.3766	0.995	0.119	0.319	0.1398	0.7085
CASC15	rs4710982	21733835 G,C	0.8653	0.9343	0.237	0.642	0.1364	0.7119
CASC15	rs9466125	21601156 A,G	0.9295	0.9574	0.322	0.874	0.1355	0.7128
CASC15	rs78825652	21609539 I,R	0.6732	0.9671	-0.122	0.332	0.135	0.7133
CASC15	rs112101248	21683625 T,C	0.9893	0.5442	20.808	56.793	0.1342	0.7141
CASC15	rs9460670	21731138 C,A	0.877	0.9736	0.235	0.641	0.134	0.7143
CASC15	rs7759991	21609547 C,T	0.6977	0.9669	-0.121	0.333	0.1326	0.7158
CASC15	rs116258702	21618081 C,T	0.9891	0.5647	12.624	34.763	0.1319	0.7165
CASC15	rs1744848	21609563 C,T	0.6977	0.9669	-0.12	0.332	0.1312	0.7172
CASC15	rs12528487	21735354 A,G	0.8629	0.9338	0.233	0.646	0.1302	0.7182
CASC15	rs12525631	21730840 C,T	0.8794	0.9968	0.23	0.638	0.1296	0.7188
CASC15	rs16885189	21729682 G,A	0.8667	0.9973	0.23	0.638	0.1296	0.7188
CASC15	rs4712633	21738249 A,G	0.8598	1	0.23	0.638	0.1296	0.7188

CASC15	rs115900264	21738499 A,G	0.8705	0.965	0.231	0.643	0.1285	0.72
CASC15	rs68015368	21645499 I,R	0.8315	0.7435	0.147	0.41	0.1285	0.72
CASC15	rs117537289	21661595 C,T	0.9854	0.5671	29.531	83.009	0.1266	0.722
CASC15	rs76428292	21629756 C,A	0.974	0.7112	0.319	0.913	0.1218	0.7271
CASC15	rs6924745	21693837 C,T	0.8421	0.8514	0.179	0.513	0.1215	0.7274
CASC15	rs78030412	21631511 T,C	0.9731	0.7032	0.317	0.91	0.121	0.7279
CASC15	rs147960757	21606492 G,T	0.9772	0.8203	0.308	0.896	0.1182	0.731
CASC15	rs146269383	21601263 G,A	0.9772	0.8168	0.307	0.896	0.1176	0.7316
CASC15	rs1744860	21627046 A,G	0.6998	0.9875	0.1	0.293	0.1176	0.7317
CASC15	rs78523587	21614133 G,A	0.9764	0.7872	0.308	0.9	0.1169	0.7324
CASC15	rs16885105	21598981 C,T	0.9309	0.9869	0.298	0.874	0.1165	0.7329
CASC15	rs11281983	21600430 R,I	0.9309	0.9934	0.297	0.87	0.1163	0.7331
CASC15	rs9466124	21599700 A,G	0.9309	0.9964	0.297	0.87	0.1163	0.7331
CASC15	rs6921422	21600523 C,A	0.9308	0.9908	0.296	0.871	0.116	0.7335
CASC15	rs77625474	21604127 G,T	0.9308	0.9762	0.296	0.872	0.1155	0.7339
CASC15	rs1740841	21627053 G,T	0.6852	0.9798	0.099	0.293	0.1148	0.7348
CASC15	rs58919806	21570038 G,A	0.8921	0.397	0.256	0.768	0.1108	0.7393
CASC15	rs11965374	21629739 T,G	0.9653	0.7623	0.298	0.899	0.1099	0.7402
CASC15	rs56004640	21716262 A,G	0.8113	0.9096	-0.149	0.45	0.1098	0.7403
CASC15	rs1740840	21627378 G,A	0.7156	0.9808	0.098	0.295	0.1097	0.7405
CASC15	rs75159243	21656071 A,T	0.9838	0.4842	-9.303	28.083	0.1097	0.7405
CASC15	rs9350367	21555608 C,T	0.6563	0.3839	0.164	0.496	0.109	0.7413
CASC15	rs1744859	21626395 T,C	0.685	0.9803	0.097	0.293	0.1085	0.7418
CASC15	rs1744857	21626067 T,C	0.6993	0.9886	0.095	0.292	0.106	0.7448
CASC15	rs1744858	21626190 T,C	0.6849	0.9807	0.095	0.293	0.1052	0.7457
CASC15	rs78225455	21566785 T,A	0.9087	0.4686	0.242	0.75	0.1038	0.7473
CASC15	rs78686872	21566786 T,C	0.9087	0.4686	0.242	0.75	0.1038	0.7473
CASC15	rs147795739	21606396 C,G	0.9894	0.6082	10.856	34.007	0.1019	0.7496
CASC15	rs113932195	21562740 T,C	0.9088	0.469	0.238	0.747	0.1015	0.7501
CASC15	rs2144867	21689100 C,T	0.9874	0.3281	-0.685	2.162	0.1004	0.7513
CASC15	rs9466158	21717309 T,C	0.7892	0.921	-0.141	0.448	0.0991	0.7529
CASC15	rs1744887	21674378 G,T	0.9679	0.3275	0.746	2.378	0.0983	0.7538
CASC15	rs111479343	21561070 G,T	0.9092	0.4694	0.234	0.746	0.0982	0.7539
CASC15	rs9466143	21676688 A,T	0.943	0.8542	28.825	93.991	0.0941	0.7591
CASC15	rs6456441	21658313 A,T	0.9842	0.4898	-12.952	42.393	0.0933	0.76
CASC15	rs4712620	21554898 A,C	0.6509	0.3847	0.143	0.477	0.0898	0.7644
CASC15	rs36093392	21601725 D,R	0.7127	0.8142	-0.108	0.364	0.0889	0.7656
CASC15	rs73737557	21570448 T,C	0.9333	0.4619	0.27	0.907	0.0887	0.7659
CASC15	rs201995762	21706002 R,I	0.9873	0.4393	6.773	22.819	0.0881	0.7666
CASC15	rs143796183	21587351 G,A	0.9851	0.3168	1.654	5.574	0.088	0.7667
CASC15	rs112117324	21606452 C,T	0.9756	0.8592	-7.364	24.889	0.0875	0.7673
CASC15	rs117538721	21647180 T,C	0.986	0.5245	3.926	13.277	0.0874	0.7675
CASC15	rs115061151	21659040 A,C	0.9843	0.4916	-13.51	46.777	0.0834	0.7727
CASC15	rs150766348	21706424 R,D	0.6681	0.8073	-0.13	0.451	0.0827	0.7736
CASC15	rs7753451	21607833 T,C	0.9894	0.606	9.838	34.324	0.0822	0.7744

CASC15	rs11968460	21718604	G,A	0.8056	0.9024	-0.127	0.444	0.0819	0.7747
CASC15	rs11284636	21591706	R,D	0.9858	0.4225	6.919	24.214	0.0816	0.7751
CASC15	rs9466155	21707222	G,A	0.6726	0.8766	-0.122	0.43	0.0805	0.7766
CASC15	rs57442902	21704602	C,T	0.6719	0.8494	-0.123	0.439	0.0785	0.7794
CASC15	rs34810044	21718703	R,D	0.7721	0.9072	-0.124	0.444	0.0781	0.7799
CASC15	rs7754999	21705723	C,T	0.6691	0.8543	-0.12	0.434	0.0771	0.7813
CASC15	rs62403971	21702621	T,C	0.6704	0.8339	-0.123	0.445	0.0769	0.7815
CASC15	rs11380611	21703686	R,I	0.6704	0.84	-0.122	0.442	0.0765	0.7821
CASC15	rs6933751	21704108	T,C	0.672	0.8471	-0.122	0.441	0.0763	0.7824
CASC15	rs55686449	21702505	T,C	0.6687	0.8289	-0.123	0.445	0.0761	0.7826
CASC15	rs13362741	21700158	A,C	0.6707	0.8039	-0.125	0.454	0.0758	0.7831
CASC15	rs62403969	21702409	A,C	0.6716	0.8327	-0.123	0.446	0.0758	0.7831
CASC15	rs35829440	21655243	R,I	0.602	0.3134	-0.143	0.52	0.0755	0.7836
CASC15	rs4712627	21701892	C,T	0.6719	0.828	-0.123	0.447	0.0754	0.7836
CASC15	rs4712630	21702161	T,C	0.6716	0.8305	-0.123	0.447	0.0754	0.7836
CASC15	rs4712628	21702070	C,G	0.6704	0.828	-0.123	0.447	0.0753	0.7837
CASC15	rs4712629	21702103	A,G	0.6716	0.83	-0.123	0.447	0.0754	0.7837
CASC15	rs561618338	21639342	R,I	0.9855	0.4795	4.868	17.73	0.0754	0.7837
CASC15	rs2328624	21703736	G,C	0.672	0.8448	-0.121	0.442	0.0753	0.7838
CASC15	rs73376030	21700390	T,G	0.6688	0.8019	-0.124	0.452	0.075	0.7842
CASC15	rs6927945	21703341	T,C	0.672	0.841	-0.12	0.443	0.0738	0.7859
CASC15	rs11751574	21702901	G,A	0.6716	0.8382	-0.12	0.444	0.0734	0.7865
CASC15	rs2328626	21703885	C,T	0.6717	0.8448	-0.119	0.441	0.0731	0.7869
CASC15	rs11753001	21726506	T,C	0.9147	0.5112	0.211	0.781	0.0729	0.7872
CASC15	rs2328625	21703880	T,C	0.6717	0.8446	-0.119	0.441	0.0729	0.7872
CASC15	rs150435139	21707497	A,G	0.9874	0.4469	6.057	22.451	0.0728	0.7873
CASC15	rs36024930	21605537	R,D	0.7795	0.8154	-0.103	0.381	0.0725	0.7877
CASC15	rs7762010	21701594	G,A	0.6719	0.8177	-0.122	0.452	0.0723	0.788
CASC15	rs7761844	21701456	G,A	0.6722	0.8149	-0.122	0.453	0.0722	0.7881
CASC15	rs7761595	21701550	A,G	0.6721	0.8165	-0.121	0.452	0.0721	0.7883
CASC15	rs59730691	21701056	C,T	0.6717	0.8117	-0.122	0.454	0.0718	0.7887
CASC15	rs62406887	21701319	C,T	0.6717	0.8135	-0.121	0.453	0.0719	0.7887
CASC15	rs12528435	21562732	G,A	0.8866	0.355	-0.238	0.89	0.0718	0.7888
CASC15	rs7761575	21701475	C,T	0.672	0.8148	-0.121	0.453	0.0715	0.7891
CASC15	rs2876599	21714103	C,G	0.9889	0.7808	82.811	310.314	0.0712	0.7896
CASC15	rs2328627	21714362	G,A	0.9889	0.782	127.022	478.565	0.0704	0.7907
CASC15	rs6904795	21703099	A,G	0.6649	0.8486	-0.117	0.441	0.0704	0.7908
CASC15	rs112153247	21701183	C,T	0.6716	0.8121	-0.12	0.454	0.0701	0.7912
CASC15	rs140423760	21646093	C,A	0.9884	0.552	4.21	15.987	0.0693	0.7923
CASC15	rs4712626	21701841	G,A	0.6545	0.8328	-0.117	0.444	0.0691	0.7927
CASC15	rs62406886	21701119	T,C	0.6631	0.8167	-0.118	0.451	0.068	0.7942
CASC15	rs78474141	21604475	G,T	0.9839	0.9516	-88.653	340.707	0.0677	0.7947
CASC15	rs73376077	21720504	C,T	0.7969	0.9025	-0.111	0.438	0.0641	0.8001
CASC15	rs9466159	21721313	A,G	0.8227	0.9323	-0.11	0.438	0.063	0.8018
CASC15	rs375807437	21686609	R,D	0.5634	0.7421	0.099	0.396	0.0627	0.8023

CASC15	rs1744855	21623715	G,A	0.3803	0.9708	-0.071	0.288	0.0609	0.8051
CASC15	rs58572340	21555505	T,A	0.8729	0.5846	0.139	0.564	0.0605	0.8057
CASC15	rs183503583	21638847	G,A	0.9885	0.5492	5.216	21.478	0.059	0.8081
CASC15	rs12183824	21726382	G,A	0.8184	0.3562	-0.255	1.055	0.0586	0.8087
CASC15	rs141898580	21709985	C,T	0.9816	0.8379	-12.84	53.288	0.0581	0.8096
CASC15	rs150071402	21610552	G,A	0.9896	0.5952	8.692	36.113	0.0579	0.8098
CASC15	rs56050802	21555539	C,T	0.8664	0.6128	0.121	0.509	0.0565	0.812
CASC15	rs116187696	21639646	G,A	0.9868	0.5351	4.487	19.03	0.0556	0.8136
CASC15	rs60336041	21714991	A,C	0.9818	0.9007	-41.504	176.44	0.0553	0.814
CASC15	rs7740486	21714797	A,G	0.9818	0.8978	-41.504	176.44	0.0553	0.814
CASC15	rs76475505	21611890	T,G	0.9837	0.9609	-37.787	160.733	0.0553	0.8141
CASC15	rs9466129	21610137	C,G	0.9838	0.9565	-37.787	160.733	0.0553	0.8141
CASC15	rs138691949	21653247	A,T	0.9812	0.5466	3.894	16.584	0.0551	0.8143
CASC15	rs200822534	21701029	R,D	0.6386	0.6957	-0.116	0.497	0.0548	0.8149
CASC15	rs111684701	21608562	C,T	0.9809	0.9509	-93.327	402.909	0.0537	0.8168
CASC15	rs112892524	21608321	C,T	0.981	0.9464	-93.327	402.909	0.0537	0.8168
CASC15	rs571632729	21726382	R,I	0.896	0.3926	-0.264	1.151	0.0527	0.8184
CASC15	rs141900910	21647244	C,T	0.9864	0.543	3.071	13.627	0.0508	0.8217
CASC15	rs148261621	21712086	R,I	0.7162	0.7178	-0.102	0.479	0.0453	0.8314
CASC15	rs201513044	21589010	R,D	0.9897	0.4337	1.698	8.079	0.0442	0.8336
CASC15	rs116598598	21654884	A,T	0.983	0.5411	5.357	25.851	0.0429	0.8358
CASC15	rs78714768	21631590	C,T	0.9845	0.8158	-29.778	143.94	0.0428	0.8361
CASC15	rs73737565	21664442	T,G	0.9768	0.5564	-14.376	69.786	0.0424	0.8368
CASC15	rs397888201	21681363	R,D	0.4982	0.7168	-0.069	0.336	0.0417	0.8382
CASC15	rs60368679	21746134	C,T	0.9868	0.3206	-0.4	1.978	0.0408	0.8399
CASC15	rs9368325	21577508	C,T	0.8604	0.347	-0.146	0.725	0.0404	0.8407
CASC15	rs1322883	21720796	A,G	0.5867	0.9164	-0.079	0.398	0.0392	0.8431
CASC15	rs75994264	21745903	C,T	0.9868	0.3369	-0.381	1.932	0.0389	0.8436
CASC15	rs73392011	21569756	C,T	0.9671	0.445	0.294	1.503	0.0383	0.8448
CASC15	rs113196987	21575419	A,G	0.9232	0.5162	0.129	0.665	0.0379	0.8457
CASC15	rs77273443	21620705	G,A	0.984	0.938	-21.04	108.774	0.0374	0.8466
CASC15	rs141007801	21722788	R,I	0.8394	0.8482	-0.09	0.468	0.0374	0.8468
CASC15	rs9466169	21746181	A,G	0.8659	0.4166	-0.154	0.801	0.0371	0.8472
CASC15	rs11327351	21623643	D,R	0.6711	0.9267	0.059	0.307	0.0365	0.8485
CASC15	rs1744856	21625895	G,A	0.6341	0.4717	-0.085	0.447	0.0357	0.8501
CASC15	rs146150526	21575243	T,C	0.9263	0.5346	0.125	0.667	0.0348	0.852
CASC15	rs111526226	21567385	T,C	0.968	0.4673	0.269	1.475	0.0333	0.8552
CASC15	rs116342166	21630548	T,C	0.9891	0.5558	6.935	38.249	0.0329	0.8561
CASC15	rs111928481	21648542	T,A	0.9738	0.8848	-0.22	1.216	0.0328	0.8562
CASC15	rs113064891	21606092	R,I	0.9811	0.9369	-35.186	194.848	0.0326	0.8567
CASC15	rs112617138	21576898	A,G	0.938	0.5193	0.118	0.664	0.0318	0.8585
CASC15	rs112653724	21576915	G,A	0.9388	0.5234	0.118	0.668	0.0314	0.8594
CASC15	rs77354845	21621783	A,G	0.9841	0.9371	-17.664	99.905	0.0313	0.8597
CASC15	rs4616978	21606129	G,A	0.8111	0.9353	-0.064	0.366	0.0307	0.8608
CASC15	rs112243204	21582142	T,C	0.9498	0.5703	0.112	0.651	0.0298	0.863

CASC15	rs79847215	21560355	C,A	0.9848	0.3334	0.367	2.134	0.0296	0.8634
CASC15	rs111503674	21585461	T,C	0.941	0.5927	0.11	0.641	0.0295	0.8635
CASC15	rs75228175	21579117	C,T	0.9479	0.5358	0.114	0.661	0.0296	0.8635
CASC15	rs77401992	21579608	A,G	0.9474	0.5364	0.113	0.656	0.0296	0.8635
CASC15	rs76401928	21586715	G,A	0.9419	0.6097	0.109	0.637	0.0292	0.8642
CASC15	rs79521243	21581049	T,C	0.9405	0.5684	0.11	0.648	0.029	0.8647
CASC15	rs57690989	21652353	T,G	0.9629	0.903	-0.173	1.019	0.029	0.8648
CASC15	rs9366406	21617668	T,A	0.7397	0.9296	0.055	0.33	0.0283	0.8664
CASC15	rs76501983	21631411	G,A	0.9854	0.8228	-0.202	1.215	0.0277	0.8679
CASC15	rs9350368	21562144	A,G	0.6823	0.3726	0.089	0.537	0.0274	0.8685
CASC15	rs79693897	21695822	R,D	0.6627	0.717	-0.081	0.496	0.0268	0.87
CASC15	rs111412021	21606278	T,C	0.9882	0.8163	-0.206	1.264	0.0265	0.8707
CASC15	rs146017644	21640727	C,T	0.9833	0.5529	2.596	16.061	0.0261	0.8716
CASC15	rs79169915	21607457	G,A	0.9882	0.848	-0.203	1.27	0.0256	0.8728
CASC15	rs190176895	21629550	C,A	0.9877	0.7487	-0.201	1.267	0.0251	0.8741
CASC15	rs9466164	21723538	A,G	0.8284	0.9494	-0.067	0.422	0.025	0.8743
CASC15	rs9460659	21696569	G,C	0.6689	0.7266	-0.078	0.496	0.0249	0.8747
CASC15	rs543173991	21629474	T,A	0.9884	0.7664	-0.218	1.393	0.0246	0.8754
CASC15	rs113842280	21611571	T,G	0.9848	0.967	-0.189	1.209	0.0243	0.8761
CASC15	rs73737568	21667546	A,G	0.9719	0.8789	-0.186	1.198	0.0242	0.8763
CASC15	rs6933506	21673857	T,C	0.9717	0.871	-0.184	1.185	0.0241	0.8765
CASC15	rs1744866	21631188	C,T	0.9885	0.3807	-0.967	6.23	0.0241	0.8767
CASC15	rs112538002	21611751	T,C	0.9848	0.97	-0.187	1.209	0.024	0.8768
CASC15	rs77155105	21682861	C,G	0.9671	0.7117	-0.316	2.038	0.024	0.8768
CASC15	rs111411936	21626246	G,A	0.9877	0.7672	-0.196	1.265	0.024	0.8769
CASC15	rs112650104	21611568	C,G	0.9871	0.889	-0.195	1.262	0.024	0.877
CASC15	rs546083928	21596246	R,I	0.9877	0.6818	-0.195	1.263	0.0239	0.8771
CASC15	rs7762989	21624153	C,T	0.9883	0.8214	-0.196	1.265	0.0239	0.8771
CASC15	rs1972212	21743761	C,T	0.8703	0.5142	-0.111	0.719	0.0238	0.8775
CASC15	rs111228858	21612309	G,A	0.9872	0.8945	-0.194	1.26	0.0236	0.8778
CASC15	rs78923341	21612472	A,C	0.9872	0.895	-0.194	1.26	0.0236	0.8778
CASC15	rs6934807	21653677	A,G	0.9709	0.9814	-0.186	1.209	0.0236	0.8779
CASC15	rs73374488	21666188	G,A	0.9707	0.8902	-0.184	1.198	0.0235	0.8781
CASC15	rs117971178	21674146	C,T	0.9852	0.5427	-185.28	1208.73	0.0235	0.8782
CASC15	rs145952396	21677173	C,T	0.9854	0.5637	-46.32	302.182	0.0235	0.8782
CASC15	rs147045541	21675767	C,T	0.9834	0.576	-185.28	1208.73	0.0235	0.8782
CASC15	rs59187080	21668625	G,A	0.966	0.7875	-0.153	1.001	0.0235	0.8782
CASC15	rs9295516	21673560	C,T	0.9483	0.8605	-61.76	402.909	0.0235	0.8782
CASC15	rs9466126	21601762	A,C	0.9836	0.9467	-185.28	1208.73	0.0235	0.8782
CASC15	rs9466127	21602745	G,A	0.9739	0.9906	-185.28	1208.73	0.0235	0.8782
CASC15	rs142641808	21677158	C,T	0.9656	0.7625	-0.253	1.656	0.0234	0.8784
CASC15	rs6941897	21671979	C,A	0.9897	0.6097	-0.205	1.338	0.0234	0.8784
CASC15	rs9358441	21565339	T,C	0.7025	0.3571	0.085	0.559	0.0233	0.8786
CASC15	rs113989215	21665766	A,C	0.9131	0.855	-0.095	0.622	0.0233	0.8787
CASC15	rs147488932	21672276	G,A	0.9657	0.8442	-0.259	1.705	0.023	0.8795

CASC15	rs1740843	21623041	G,A	0.6876	0.9919	0.044	0.293	0.023	0.8795
CASC15	rs75509154	21670162	A,G	0.9656	0.8408	-0.258	1.705	0.0229	0.8796
CASC15	rs76934110	21669629	G,A	0.9626	0.7982	-0.258	1.704	0.0228	0.8799
CASC15	rs116697959	21668594	A,T	0.9652	0.8312	-0.256	1.705	0.0226	0.8806
CASC15	rs1744849	21612949	A,G	0.7238	1	-0.046	0.307	0.0225	0.8809
CASC15	rs75157802	21678178	A,G	0.9675	0.834	-0.249	1.664	0.0223	0.8812
CASC15	rs112102336	21677692	G,T	0.9639	0.7866	-0.245	1.646	0.0222	0.8814
CASC15	rs7751397	21662535	C,T	0.9285	0.8402	-0.104	0.702	0.0221	0.8818
CASC15	rs7738506	21702690	A,T	0.9888	0.6716	-1.916	12.903	0.022	0.882
CASC15	rs7739186	21657833	T,C	0.9158	0.8085	-0.103	0.696	0.022	0.8821
CASC15	rs10557323	21615430	R,D	0.9849	0.974	-0.179	1.209	0.0219	0.8823
CASC15	rs77222012	21614945	G,A	0.9849	0.9755	-0.178	1.209	0.0218	0.8827
CASC15	rs74492370	21679606	G,A	0.9678	0.8228	-0.251	1.705	0.0217	0.8829
CASC15	rs78971333	21679601	C,T	0.9678	0.8229	-0.251	1.705	0.0217	0.8829
CASC15	rs138585583	21678890	R,D	0.8749	0.9014	-0.092	0.622	0.0217	0.883
CASC15	rs112553613	21616239	A,G	0.9848	0.9676	-0.178	1.209	0.0216	0.8831
CASC15	rs12374633	21654974	G,A	0.9698	0.9337	-0.178	1.211	0.0216	0.8831
CASC15	rs111232506	21744922	C,T	0.9798	0.3015	-0.277	1.884	0.0216	0.8833
CASC15	rs80264536	21666345	T,G	0.9437	0.7836	-0.237	1.614	0.0216	0.8833
CASC15	rs113455272	21616778	T,C	0.9824	0.9392	-0.177	1.209	0.0215	0.8834
CASC15	rs111887738	21616944	T,C	0.9828	0.9369	-0.177	1.209	0.0214	0.8836
CASC15	rs6935968	21613156	G,A	0.9849	0.9776	-0.177	1.209	0.0213	0.8838
CASC15	rs75127321	21613946	G,A	0.9849	0.9767	-0.177	1.209	0.0213	0.8838
CASC15	rs76062205	21666427	C,T	0.9438	0.7852	-0.235	1.616	0.0212	0.8842
CASC15	rs71657670	21613526	R,D	0.9864	0.77	-0.183	1.262	0.0209	0.885
CASC15	rs7771671	21662524	T,G	0.9284	0.8382	-0.101	0.702	0.0208	0.8852
CASC15	rs73378032	21744446	C,A	0.9796	0.3201	-0.262	1.828	0.0206	0.8859
CASC15	rs16885205	21743291	T,C	0.8644	0.5834	-0.097	0.676	0.0204	0.8864
CASC15	rs1744854	21623686	C,T	0.6725	0.9882	0.042	0.296	0.0202	0.8869
CASC15	rs71563992	21655825	G,T	0.9888	0.8713	-5.613	39.687	0.02	0.8875
CASC15	rs116216476	21700308	T,C	0.9886	0.6467	-1.222	8.682	0.0198	0.8881
CASC15	rs9460657	21660051	C,T	0.8938	0.8161	-0.098	0.696	0.0198	0.8881
CASC15	rs78870816	21665363	C,T	0.9434	0.7804	-0.226	1.615	0.0196	0.8886
CASC15	rs6456437	21615443	T,C	0.7388	0.9506	0.046	0.329	0.0193	0.8894
CASC15	rs6456440	21658236	C,A	0.9344	0.7776	-0.162	1.169	0.0192	0.8898
CASC15	rs6918842	21691009	C,T	0.5679	0.9924	-0.05	0.359	0.0192	0.8898
CASC15	rs116300170	21663541	G,A	0.9641	0.8099	-0.234	1.694	0.0191	0.8902
CASC15	rs62403974	21713978	T,C	0.7736	0.9053	-0.056	0.403	0.019	0.8904
CASC15	rs1744853	21623386	A,G	0.6725	0.9887	0.041	0.296	0.0188	0.8909
CASC15	rs112524196	21743604	G,A	0.9794	0.3214	-0.249	1.818	0.0188	0.891
CASC15	rs1740842	21623181	G,A	0.6726	0.9885	0.04	0.296	0.0181	0.893
CASC15	rs7772337	21726278	C,T	0.8256	0.9612	-0.056	0.416	0.0181	0.893
CASC15	rs1740864	21668282	G,A	0.6096	0.9094	0.039	0.292	0.018	0.8934
CASC15	rs62403977	21725337	C,T	0.8232	0.9705	-0.055	0.415	0.0178	0.8939
CASC15	rs10080820	21655815	C,G	0.983	0.7561	-3.449	26.07	0.0175	0.8947

CASC15	rs9466136	21653258	C,T	0.905	0.8569	-0.08	0.607	0.0174	0.895
CASC15	rs145648458	21636404	T,C	0.9762	0.7475	-3.301	25.046	0.0174	0.8951
CASC15	rs9460668	21727929	C,G	0.8216	0.9705	-0.055	0.414	0.0173	0.8953
CASC15	rs76944255	21582643	G,A	0.981	0.4687	-0.162	1.267	0.0163	0.8983
CASC15	rs528217121	21702677	R,D	0.9888	0.6785	-1.635	12.825	0.0162	0.8986
CASC15	rs78098947	21713740	C,T	0.989	0.7788	46.73	370.295	0.0159	0.8996
CASC15	rs79164129	21601917	T,C	0.9855	0.3283	-0.251	2.008	0.0157	0.9004
CASC15	rs80061387	21579793	T,C	0.9808	0.4585	-0.159	1.268	0.0157	0.9004
CASC15	rs144178641	21622568	C,T	0.984	0.926	-12.485	99.917	0.0156	0.9006
CASC15	rs140066406	21728813	R,I	0.8701	0.9744	0.09	0.724	0.0155	0.9009
CASC15	rs116300465	21738509	T,G	0.8638	0.9326	0.076	0.616	0.0153	0.9015
CASC15	rs80230506	21655914	C,A	0.9607	0.7829	-0.189	1.534	0.0152	0.902
CASC15	rs571788443	21558875	R,D	0.8581	0.3304	0.086	0.701	0.0149	0.9029
CASC15	rs12333123	21640660	G,A	0.9848	0.7705	-3.81	32.502	0.0137	0.9067
CASC15	rs1740844	21622871	C,T	0.6724	0.9911	0.033	0.295	0.0127	0.9102
CASC15	rs145545902	21735584	D,R	0.6454	0.9341	0.044	0.39	0.0125	0.9111
CASC15	rs6925119	21701083	G,A	0.6412	0.822	-0.048	0.43	0.0124	0.9112
CASC15	rs116104882	21654116	G,C	0.9607	0.7845	-0.168	1.511	0.0124	0.9114
CASC15	rs13219202	21683982	G,A	0.5273	0.7259	-0.038	0.341	0.0123	0.9118
CASC15	rs149768565	21719941	R,D	0.9754	0.6872	-2.964	27.179	0.0119	0.9131
CASC15	rs1740863	21670641	C,T	0.6246	0.9994	0.029	0.28	0.0111	0.9161
CASC15	rs9466145	21677060	A,C	0.6171	1	0.029	0.28	0.0111	0.9161
CASC15	rs1475149	21688142	G,A	0.5662	0.9247	-0.039	0.371	0.011	0.9165
CASC15	rs1744889	21676795	A,G	0.6165	0.9936	0.029	0.28	0.0107	0.9176
CASC15	rs2749684	21676485	C,T	0.6168	0.9872	0.029	0.281	0.0107	0.9178
CASC15	rs1744885	21670816	A,G	0.4476	0.9803	-0.029	0.281	0.0106	0.9179
CASC15	rs11966675	21640125	G,A	0.9761	0.7522	-2.088	20.364	0.0105	0.9183
CASC15	rs9466154	21706155	G,T	0.6423	0.8816	-0.04	0.403	0.0099	0.9209
CASC15	rs10155733	21639594	C,T	0.9761	0.7534	-2.074	21.138	0.0096	0.9218
CASC15	rs185494084	21636537	T,C	0.9884	0.4475	-0.166	1.72	0.0093	0.923
CASC15	rs1740854	21680732	A,C	0.6112	0.9639	0.027	0.283	0.0091	0.9241
CASC15	rs12333154	21640855	G,A	0.976	0.751	-1.858	19.537	0.009	0.9242
CASC15	rs1740849	21619809	G,A	0.3637	0.9622	-0.028	0.294	0.0089	0.9248
CASC15	rs189742413	21683505	C,T	0.984	0.4632	-0.18	1.927	0.0087	0.9257
CASC15	rs10155732	21639540	C,T	0.9761	0.7536	-1.895	21.161	0.008	0.9287
CASC15	rs5874829	21738740	R,I	0.8074	0.7675	0.04	0.446	0.0079	0.9293
CASC15	rs62406884	21696308	C,T	0.9205	0.414	-0.082	0.924	0.0078	0.9296
CASC15	rs11433545	21672216	R,I	0.5947	0.6034	0.033	0.378	0.0077	0.9301
CASC15	rs35605844	21674022	D,R	0.6185	0.9309	0.025	0.288	0.0077	0.9303
CASC15	rs116239840	21722970	A,C	0.8218	0.9134	-0.037	0.422	0.0076	0.9307
CASC15	rs147273446	21638982	C,G	0.9761	0.7533	-1.876	21.873	0.0074	0.9316
CASC15	rs148317817	21638986	G,A	0.9761	0.7532	-1.876	21.873	0.0074	0.9316
CASC15	rs79846403	21723244	C,T	0.8348	0.8403	-0.038	0.443	0.0073	0.9317
CASC15	rs78712702	21700242	T,A	0.9843	0.4664	0.161	1.878	0.0073	0.9318
CASC15	rs201884896	21657694	D,R	0.9455	0.3238	0.083	1.005	0.0069	0.934

CASC15	rs143636013	21649787	G,C	0.9413	0.7828	-0.099	1.22	0.0066	0.9354
CASC15	rs7770799	21553258	A,C	0.9337	0.9722	0.044	0.556	0.0064	0.9364
CASC15	rs16885170	21716554	G,A	0.8229	0.9708	0.042	0.537	0.0061	0.9375
CASC15	rs67418443	21554442	C,T	0.9266	0.876	0.045	0.574	0.0061	0.9375
CASC15	rs146516474	21554348	C,T	0.9266	0.8769	0.045	0.574	0.0061	0.9377
CASC15	rs35001920	21676726	R,D	0.4775	0.9497	-0.022	0.289	0.0059	0.9386
CASC15	rs112395953	21727909	A,C	0.885	0.9741	0.056	0.726	0.0059	0.9389
CASC15	rs9460660	21709294	T,C	0.616	0.9365	-0.029	0.384	0.0059	0.939
CASC15	rs7742225	21685474	G,A	0.827	0.7132	0.04	0.538	0.0057	0.94
CASC15	rs149455365	21553549	R,D	0.9357	0.9431	0.042	0.571	0.0054	0.9414
CASC15	rs9460651	21622531	G,T	0.672	0.9951	0.021	0.295	0.0053	0.9419
CASC15	rs35857450	21622415	D,R	0.6703	0.8902	0.023	0.316	0.0052	0.9424
CASC15	rs1740851	21616268	T,C	0.7152	0.9852	-0.022	0.305	0.0052	0.9425
CASC15	rs59759742	21707319	T,G	0.6009	0.9285	-0.028	0.391	0.0051	0.9429
CASC15	rs7773111	21696531	G,A	0.6146	0.751	0.033	0.469	0.005	0.9434
CASC15	rs150555050	21561633	G,A	0.9894	0.5125	-11.11	157.686	0.005	0.9438
CASC15	rs9466168	21734750	C,T	0.8215	0.9954	0.028	0.397	0.0049	0.9441
CASC15	rs57761609	21683420	D,R	0.6127	0.8292	0.02	0.309	0.0044	0.9471
CASC15	rs9358442	21573637	G,A	0.7034	0.4581	0.03	0.47	0.0042	0.9484
CASC15	rs369470901	21707320	R,I	0.6014	0.9269	-0.025	0.391	0.0042	0.9485
CASC15	rs114977922	21638119	C,G	0.9762	0.7437	-1.493	23.381	0.0041	0.9491
CASC15	rs7751661	21621850	G,A	0.6705	1	0.019	0.294	0.004	0.9498
CASC15	rs9466161	21722916	T,C	0.7866	0.8907	-0.025	0.419	0.0035	0.953
CASC15	rs147276150	21701200	A,G	0.9274	0.4176	-0.054	0.916	0.0035	0.9531
CASC15	rs1740865	21668071	C,A	0.5314	0.8949	-0.017	0.294	0.0033	0.9541
CASC15	rs11961107	21642740	G,A	0.9758	0.7454	-0.905	16.188	0.0031	0.9554
CASC15	rs7739775	21727465	C,T	0.87	0.9769	0.04	0.724	0.0031	0.9554
CASC15	rs73374447	21636151	C,T	0.9753	0.3	0.106	1.936	0.003	0.9562
CASC15	rs9466141	21673993	C,T	0.9236	0.9976	20.698	386.249	0.0029	0.9573
CASC15	rs12332790	21642505	C,T	0.9758	0.7456	-0.866	16.331	0.0028	0.9577
CASC15	rs138882930	21638300	A,G	0.9761	0.7432	-1.223	23.114	0.0028	0.9578
CASC15	rs150184400	21642793	T,C	0.9758	0.7454	-0.826	16.061	0.0026	0.959
CASC15	rs7772583	21726279	G,A	0.6306	0.9061	-0.02	0.394	0.0026	0.9595
CASC15	rs9466163	21723532	C,T	0.809	0.9768	-0.019	0.396	0.0024	0.961
CASC15	rs912025	21716058	C,G	0.8371	0.9358	-0.027	0.568	0.0023	0.9618
CASC15	rs6456442	21698279	T,C	0.5821	0.821	0.02	0.428	0.0023	0.9619
CASC15	rs9460664	21723621	G,A	0.8102	0.9858	-0.019	0.394	0.0023	0.9619
CASC15	rs10080752	21655608	C,G	0.9819	0.7225	-0.928	20.932	0.002	0.9646
CASC15	rs1555287	21686091	G,A	0.5629	0.8575	-0.017	0.381	0.0019	0.9652
CASC15	rs548416728	21647978	R,D	0.9747	0.6618	-0.505	11.563	0.0019	0.9652
CASC15	rs9295515	21641667	C,T	0.976	0.7495	-0.805	18.645	0.0019	0.9656
CASC15	rs2180418	21690172	A,G	0.8397	0.9885	0.02	0.463	0.0018	0.9659
CASC15	rs9348480	21617782	G,A	0.7922	0.9408	0.015	0.357	0.0018	0.9664
CASC15	rs62404141	21614140	G,A	0.8281	0.9622	0.015	0.361	0.0016	0.9677
CASC15	rs6926491	21724670	G,A	0.8091	0.9926	-0.016	0.393	0.0016	0.9677

CASC15	rs7772163	21726011 G,C	0.8088	0.9857	-0.016	0.393	0.0016	0.9677
CASC15	rs9466165	21724322 T,C	0.8089	0.9953	-0.016	0.393	0.0016	0.9679
CASC15	rs1973986	21687571 A,T	0.5557	0.8895	-0.015	0.376	0.0016	0.9681
CASC15	rs72317305	21669872 R,D	0.5156	0.9662	-0.011	0.284	0.0016	0.9686
CASC15	rs66735249	21686666 D,R	0.551	0.8357	-0.015	0.384	0.0015	0.9687
CASC15	rs1740855	21680782 C,T	0.5021	0.9879	-0.011	0.283	0.0015	0.9691
CASC15	rs16885175	21726770 A,G	0.8585	0.8892	-0.028	0.731	0.0014	0.9698
CASC15	rs6925679	21724480 A,G	0.8086	1	-0.015	0.392	0.0014	0.9698
CASC15	rs9460665	21724144 G,A	0.8084	1	-0.015	0.392	0.0014	0.9698
CASC15	rs9460666	21726380 G,A	0.9296	0.3512	-0.056	1.498	0.0014	0.9702
CASC15	rs34987769	21678839 R,I	0.5043	0.9785	-0.01	0.283	0.0014	0.9705
CASC15	rs117804382	21656810 C,T	0.9855	0.5625	-1.529	41.555	0.0014	0.9706
CASC15	rs1744894	21680886 T,C	0.4962	0.9953	-0.01	0.283	0.0014	0.9706
CASC15	rs199690993	21646009 R,D	0.9762	0.3058	0.071	1.987	0.0013	0.9714
CASC15	rs1744893	21680746 T,C	0.5019	0.987	-0.01	0.283	0.0013	0.9716
CASC15	rs1740861	21678006 T,C	0.5038	0.9738	-0.01	0.282	0.0012	0.9721
CASC15	rs35528538	21613493 R,D	0.8281	0.9642	0.013	0.361	0.0012	0.9721
CASC15	rs1744886	21671092 A,T	0.5151	0.9725	-0.01	0.283	0.0012	0.9723
CASC15	rs1744895	21680899 G,C	0.4958	1	-0.01	0.281	0.0012	0.9725
CASC15	rs60048426	21556513 G,A	0.947	0.5576	0.031	0.903	0.0012	0.9727
CASC15	rs1744892	21680206 A,G	0.4953	0.9943	-0.01	0.281	0.0011	0.973
CASC15	rs1744896	21681103 A,G	0.5038	0.9407	-0.01	0.291	0.0011	0.973
CASC15	rs6941630	21679102 C,T	0.5039	0.9783	-0.009	0.282	0.0011	0.9731
CASC15	rs1744891	21679835 G,A	0.5058	0.9872	-0.009	0.282	0.0011	0.9738
CASC15	rs1740856	21681223 G,A	0.5041	0.9379	-0.009	0.291	0.001	0.9744
CASC15	rs9466133	21643948 C,T	0.9757	0.7442	-0.46	15.157	0.0009	0.9758
CASC15	rs9460650	21615371 T,C	0.9841	0.9776	4.264	144.971	0.0009	0.9765
CASC15	rs9460656	21643907 A,G	0.9758	0.7442	-0.419	15.284	0.0008	0.9781
CASC15	rs1740858	21682180 C,T	0.507	0.8636	-0.008	0.304	0.0006	0.9797
CASC15	rs1740857	21681617 T,G	0.5067	0.8693	-0.008	0.303	0.0006	0.98
CASC15	rs1740859	21682298 C,T	0.5072	0.8627	-0.008	0.304	0.0006	0.9802
CASC15	rs12200574	21683353 G,A	0.5092	0.842	-0.008	0.308	0.0006	0.9804
CASC15	rs1740853	21684065 G,A	0.5152	0.7328	-0.008	0.331	0.0006	0.9804
CASC15	rs13219086	21683929 G,C	0.5137	0.7654	-0.008	0.323	0.0006	0.9807
CASC15	rs139032454	21644326 A,C	0.9757	0.7441	-0.355	14.964	0.0006	0.9811
CASC15	rs2181318	21691468 T,C	0.549	0.9168	0.009	0.365	0.0006	0.9812
CASC15	rs2759362	21681885 G,A	0.5173	0.8653	-0.007	0.304	0.0006	0.9812
CASC15	rs143393812	21633911 C,T	0.9816	0.5752	0.391	18.489	0.0004	0.9831
CASC15	rs111404042	21565201 G,A	0.9548	0.5207	0.019	0.922	0.0004	0.9836
CASC15	rs1744851	21619810 T,C	0.7153	0.9819	0.006	0.3	0.0004	0.9837
CASC15	rs1740845	21621731 G,A	0.6871	0.9929	0.006	0.299	0.0004	0.9841
CASC15	rs562901644	21554922 R,D	0.9157	0.7168	0.012	0.582	0.0004	0.9841
CASC15	rs7763048	21681780 G,A	0.4974	0.8635	-0.006	0.302	0.0004	0.9841
CASC15	rs77394991	21735578 C,T	0.8447	0.9263	0.012	0.59	0.0004	0.9842
CASC15	rs4327678	21619771 T,C	0.7132	0.9834	0.006	0.299	0.0004	0.9848

CASC15	rs149019701	21621670 D,R	0.6874	0.9939	0.006	0.299	0.0004	0.985
CASC15	rs1744852	21621724 A,G	0.6871	0.9927	0.006	0.299	0.0003	0.9851
CASC15	rs34197291	21611277 R,D	0.7729	0.7368	-0.007	0.388	0.0003	0.9852
CASC15	rs542285387	21621459 I,R	0.6862	0.9884	0.005	0.3	0.0003	0.9871
CASC15	rs527350470	21640569 R,D	0.9745	0.7043	0.335	20.945	0.0003	0.9872
CASC15	rs13215657	21683714 C,T	0.511	0.7765	-0.005	0.32	0.0003	0.9873
CASC15	rs1989470	21715067 T,A	0.5732	0.9562	-0.006	0.362	0.0003	0.9874
CASC15	rs150235785	21638293 G,A	0.9849	0.7598	-0.549	38.578	0.0002	0.9886
CASC15	rs147268567	21621169 D,R	0.6874	0.993	0.003	0.3	0.0001	0.9911
CASC15	rs4712631	21710896 C,T	0.586	0.9993	0.003	0.355	0.0001	0.9927
CASC15	rs9466156	21711491 C,T	0.5874	0.9998	0.003	0.355	0.0001	0.9927
CASC15	rs9368326	21590104 A,G	0.8056	0.5535	-0.003	0.475	0	0.9947
CASC15	rs80309179	21644884 G,T	0.9894	0.4434	0.05	8.225	0	0.9951
CASC15	rs1740847	21620469 C,A	0.6882	0.9889	0.002	0.301	0	0.9954
CASC15	rs1740846	21621045 A,G	0.6874	0.9924	0.002	0.3	0	0.9955
CASC15	rs1740850	21618925 C,G	0.7147	0.9839	0.001	0.301	0	0.9963
CASC15	rs1744850	21618916 G,T	0.7128	0.9828	0.001	0.301	0	0.9965
CASC15	rs7741780	21685460 A,G	0.8336	0.732	-0.002	0.527	0	0.9975
CASC15	rs1740848	21620293 G,A	0.6882	0.9886	0.001	0.301	0	0.9978
CASC15	rs12664833	21614978 T,G	0.8033	0.9552	0.001	0.359	0	0.9982
CASC15	rs7759495	21706044 G,A	0.6142	0.9046	0	0.383	0	0.9996
CASC15	rs2749681	21683792 A,G	0.5085	0.771	0	0.322	0	0.9997
CASC15	rs548873349	21736947 R,I	0.8405	0.7508	0	0.648	0	0.9998
CASC15	rs7739235	21609345 A,T	0.9799	0.962	0	1E+15	0	1
CASC15	rs7740142	21609635 G,A	0.9809	0.955	0	1E+15	0	1
CASC15	rs9460649	21614884 G,A	0.9843	0.994	0	1E+15	0	1

SNP association with **CDKAL1** sorted by p-value

CDKAL1	rs78584681	21743570 R,D	0.7497	0.6177	0.225	0.078	8.3539	0.00385
CDKAL1	rs74926222	21568994 C,T	0.9816	0.3776	24.845	8.929	7.7431	0.00539
CDKAL1	rs76714354	21572464 A,G	0.9805	0.3806	23.934	8.969	7.1217	0.00762
CDKAL1	rs80177376	21744978 C,T	0.9048	0.3545	0.241	0.09	7.0822	0.00779
CDKAL1	rs114750919	21725361 C,G	0.9867	0.8444	-245.64	102.084	5.79	0.01612
CDKAL1	rs73737558	21577723 A,G	0.9837	0.4293	19.641	8.176	5.7711	0.01629
CDKAL1	rs150345835	21568080 R,D	0.983	0.3784	20.644	8.601	5.7606	0.01639
CDKAL1	rs72175369	21738076 R,D	0.9214	0.781	0.189	0.08	5.5387	0.0186
CDKAL1	rs12189901	21726940 G,A	0.9308	0.9638	0.177	0.078	5.0977	0.02396
CDKAL1	rs112039884	21729100 C,T	0.9274	0.9676	0.174	0.078	5.0258	0.02497
CDKAL1	rs75327712	21728829 G,A	0.9295	0.9778	0.174	0.078	5.0258	0.02497
CDKAL1	rs10946466	21727456 C,A	0.9298	0.9928	0.174	0.078	5.0251	0.02498
CDKAL1	rs12206842	21734489 A,T	0.9372	1	0.174	0.078	5.0251	0.02498
CDKAL1	rs9358449	21732383 G,A	0.937	0.9915	0.174	0.078	5.0223	0.02502
CDKAL1	rs7451817	21735497 A,C	0.9341	0.9124	0.175	0.078	5.0085	0.02522
CDKAL1	rs79949484	21728966 G,A	0.9319	0.8819	0.191	0.086	4.9246	0.02648
CDKAL1	rs9348484	21731460 C,G	0.93	0.9619	0.173	0.078	4.8921	0.02698
CDKAL1	rs9358448	21731736 G,A	0.9305	0.9625	0.173	0.078	4.8904	0.02701

CDKAL1	rs7739131	21727148	C,T	0.7149	0.9794	0.13	0.064	4.1061	0.04273
CDKAL1	rs138380902	21731187	R,D	0.9079	0.9299	0.145	0.076	3.5995	0.0578
CDKAL1	rs2328627	21714362	G,A	0.9889	0.782	-168.8	90.064	3.5127	0.0609
CDKAL1	rs141898580	21709985	C,T	0.9816	0.8379	-18.782	10.029	3.5075	0.06109
CDKAL1	rs35578300	21741886	R,D	0.7077	0.8309	0.12	0.064	3.5039	0.06122
CDKAL1	rs115395409	21696639	C,T	0.99	0.5674	-2.586	1.382	3.5029	0.06126
CDKAL1	rs1853345	21742346	T,C	0.73	0.9808	0.108	0.058	3.4601	0.06287
CDKAL1	rs145825998	21695945	T,G	0.9899	0.5601	-2.542	1.398	3.3046	0.06909
CDKAL1	rs540918539	21717464	R,D	0.9882	0.804	-159.33	90.064	3.1296	0.07688
CDKAL1	rs71563994	21668435	T,C	0.9731	0.7255	-35.908	20.462	3.0794	0.07929
CDKAL1	rs558880181	21699974	R,D	0.9241	0.5575	-0.485	0.278	3.0355	0.08146
CDKAL1	rs35922627	21667988	A,T	0.973	0.7238	-33.534	19.603	2.9262	0.08715
CDKAL1	rs6906888	21697966	G,A	0.9391	0.5729	-0.575	0.338	2.8903	0.08912
CDKAL1	rs144222210	21726206	C,T	0.987	0.7975	-1.232	0.725	2.8877	0.08926
CDKAL1	rs6906248	21697889	A,G	0.9391	0.5714	-0.58	0.342	2.8853	0.08939
CDKAL1	rs75062640	21722533	A,G	0.9823	0.8162	-1.205	0.71	2.8848	0.08942
CDKAL1	rs76144443	21697748	A,G	0.9391	0.5709	-0.582	0.343	2.8842	0.08945
CDKAL1	rs6929045	21697861	T,C	0.9391	0.5712	-0.581	0.342	2.8841	0.08946
CDKAL1	rs6928871	21697812	T,C	0.9391	0.571	-0.581	0.342	2.8828	0.08953
CDKAL1	rs78471563	21679073	T,A	0.9895	0.9404	-203.8	120.121	2.8785	0.08977
CDKAL1	rs149555362	21726144	T,C	0.9879	0.8456	-1.23	0.725	2.8775	0.08982
CDKAL1	rs111357910	21723888	A,G	0.988	0.8511	-1.21	0.714	2.8752	0.08996
CDKAL1	rs115731554	21723090	C,T	0.9877	0.8291	-1.206	0.712	2.8696	0.09026
CDKAL1	rs78529444	21722481	A,G	0.9876	0.8222	-1.206	0.712	2.8696	0.09026
CDKAL1	rs6929483	21698094	T,C	0.9394	0.583	-0.534	0.316	2.8509	0.09133
CDKAL1	rs6929294	21698041	T,G	0.9394	0.5831	-0.535	0.317	2.8473	0.09153
CDKAL1	rs60309622	21698465	C,T	0.9414	0.5673	-0.531	0.315	2.8461	0.09159
CDKAL1	rs112103466	21699063	T,C	0.9395	0.5894	-0.513	0.305	2.8342	0.09228
CDKAL1	rs58699714	21698897	C,T	0.9395	0.5888	-0.515	0.306	2.8338	0.0923
CDKAL1	rs112047759	21699028	T,C	0.9395	0.5892	-0.514	0.305	2.8308	0.09247
CDKAL1	rs9466153	21700048	C,T	0.9445	0.5887	-0.507	0.304	2.7778	0.09558
CDKAL1	rs79381952	21699489	T,C	0.9398	0.6026	-0.474	0.286	2.7396	0.09789
CDKAL1	rs7775517	21699901	T,G	0.9389	0.6039	-0.464	0.282	2.7184	0.0992
CDKAL1	rs7755254	21699892	C,T	0.9389	0.6037	-0.465	0.282	2.7162	0.09934
CDKAL1	rs16885170	21716554	G,A	0.8229	0.9708	-0.166	0.101	2.7104	0.0997
CDKAL1	rs2144867	21689100	C,T	0.9874	0.3281	-0.648	0.407	2.534	0.1114
CDKAL1	rs7740084	21727531	A,G	0.4005	0.9983	-0.091	0.058	2.4743	0.1157
CDKAL1	rs7764209	21727755	A,T	0.4006	0.9953	-0.091	0.058	2.4636	0.1165
CDKAL1	rs7744078	21727822	G,C	0.4006	0.9944	-0.091	0.058	2.4594	0.1168
CDKAL1	rs1407655	21727902	G,A	0.4028	0.9882	-0.091	0.058	2.4505	0.1175
CDKAL1	rs1830667	21728089	G,T	0.4027	0.9868	-0.091	0.058	2.4382	0.1184
CDKAL1	rs6456443	21716233	G,A	0.9818	0.9202	-83.591	53.668	2.4259	0.1193
CDKAL1	rs2180419	21728317	A,G	0.4028	0.9843	-0.091	0.058	2.4204	0.1198
CDKAL1	rs840985	21744508	G,A	0.5605	0.3093	-0.154	0.1	2.37	0.1237
CDKAL1	rs557872691	21603474	R,D	0.8825	0.5572	-0.264	0.172	2.3555	0.1248

CDKAL1	rs112524196	21743604	G,A	0.9794	0.3214	-0.525	0.342	2.3554	0.1249
CDKAL1	rs10636012	21727515	I,R	0.4062	0.9929	-0.089	0.058	2.3507	0.1252
CDKAL1	rs111232506	21744922	C,T	0.9798	0.3015	-0.544	0.355	2.3501	0.1253
CDKAL1	rs73378032	21744446	C,A	0.9796	0.3201	-0.526	0.344	2.3404	0.1261
CDKAL1	rs145778004	21696926	R,I	0.9468	0.5319	-0.639	0.422	2.2891	0.1303
CDKAL1	rs139419250	21696871	R,I	0.9475	0.5307	-0.637	0.422	2.2791	0.1311
CDKAL1	rs6900485	21697055	A,T	0.9471	0.5382	-0.632	0.42	2.2622	0.1326
CDKAL1	rs6900676	21697176	A,G	0.9471	0.5384	-0.63	0.42	2.2547	0.1332
CDKAL1	rs11284636	21591706	R,D	0.9858	0.4225	-6.805	4.557	2.2301	0.1353
CDKAL1	rs60368679	21746134	C,T	0.9868	0.3206	-0.546	0.372	2.1521	0.1424
CDKAL1	rs35210528	21667781	T,C	0.9732	0.7254	-26.285	17.976	2.1381	0.1437
CDKAL1	rs75994264	21745903	C,T	0.9868	0.3369	-0.53	0.364	2.1211	0.1453
CDKAL1	rs115061151	21659040	A,C	0.9843	0.4916	-12.776	8.803	2.1062	0.1467
CDKAL1	rs9460669	21729251	A,G	0.4053	0.9459	-0.087	0.06	2.0843	0.1488
CDKAL1	rs6456441	21658313	A,T	0.9842	0.4898	-11.504	7.978	2.0791	0.1493
CDKAL1	rs116342166	21630548	T,C	0.9891	0.5558	-10.372	7.198	2.0763	0.1496
CDKAL1	rs548873349	21736947	R,I	0.8405	0.7508	-0.176	0.122	2.076	0.1496
CDKAL1	rs147795739	21606396	C,G	0.9894	0.6082	-9.182	6.4	2.0585	0.1514
CDKAL1	rs145960980	21729330	D,R	0.4093	0.9758	-0.084	0.059	2.0242	0.1548
CDKAL1	rs79753782	21594201	C,A	0.9506	0.6778	-0.264	0.187	2.0061	0.1567
CDKAL1	rs912025	21716058	C,G	0.8371	0.9358	-0.151	0.107	1.9947	0.1579
CDKAL1	rs9466125	21601156	A,G	0.9295	0.9574	-0.232	0.164	1.9892	0.1584
CDKAL1	rs111482236	21588455	T,C	0.9537	0.6111	-0.274	0.195	1.9815	0.1592
CDKAL1	rs78502915	21591248	G,T	0.9567	0.6759	-0.269	0.191	1.9781	0.1596
CDKAL1	rs11965374	21629739	T,G	0.9653	0.7623	-0.238	0.169	1.972	0.1602
CDKAL1	rs78030412	21631511	T,C	0.9731	0.7032	-0.24	0.171	1.9611	0.1614
CDKAL1	rs78523587	21614133	G,A	0.9764	0.7872	-0.237	0.169	1.956	0.1619
CDKAL1	rs77625474	21604127	G,T	0.9308	0.9762	-0.229	0.164	1.9478	0.1628
CDKAL1	rs76428292	21629756	C,A	0.974	0.7112	-0.24	0.172	1.9446	0.1632
CDKAL1	rs114266456	21633347	G,A	0.9661	0.7099	-0.261	0.187	1.9427	0.1634
CDKAL1	rs6921422	21600523	C,A	0.9308	0.9908	-0.228	0.164	1.9424	0.1634
CDKAL1	rs147960757	21606492	G,T	0.9772	0.8203	-0.235	0.169	1.9419	0.1635
CDKAL1	rs113534734	21596349	R,D	0.9404	0.7354	-0.255	0.183	1.9395	0.1637
CDKAL1	rs146269383	21601263	G,A	0.9772	0.8168	-0.235	0.169	1.94	0.1637
CDKAL1	rs9466124	21599700	A,G	0.9309	0.9964	-0.228	0.164	1.9388	0.1638
CDKAL1	rs11281983	21600430	R,I	0.9309	0.9934	-0.228	0.164	1.9378	0.1639
CDKAL1	rs16885105	21598981	C,T	0.9309	0.9869	-0.229	0.165	1.9376	0.1639
CDKAL1	rs150071402	21610552	G,A	0.9896	0.5952	-9.417	6.796	1.92	0.1659
CDKAL1	rs77708052	21605375	C,T	0.98	0.7948	-0.258	0.186	1.9091	0.1671
CDKAL1	rs74329629	21583401	G,A	0.9656	0.5138	-0.286	0.207	1.907	0.1673
CDKAL1	rs7753451	21607833	T,C	0.9894	0.606	-8.855	6.46	1.8792	0.1704
CDKAL1	rs75051132	21589799	T,A	0.98	0.6365	-0.292	0.215	1.84	0.1749
CDKAL1	rs75159243	21656071	A,T	0.9838	0.4842	-7.169	5.285	1.84	0.1749
CDKAL1	rs12191413	21740465	A,T	0.7737	0.8456	0.088	0.065	1.8275	0.1764
CDKAL1	rs76401928	21586715	G,A	0.9419	0.6097	-0.16	0.12	1.7879	0.1812

CDKAL1	rs111503674	21585461 T,C	0.941	0.5927	-0.161	0.121	1.7868	0.1813
CDKAL1	rs112243204	21582142 T,C	0.9498	0.5703	-0.164	0.123	1.7872	0.1813
CDKAL1	rs79521243	21581049 T,C	0.9405	0.5684	-0.162	0.122	1.7716	0.1832
CDKAL1	rs117396734	21615374 A,T	0.9894	0.5869	-8.304	6.245	1.7682	0.1836
CDKAL1	rs77401992	21579608 A,G	0.9474	0.5364	-0.164	0.124	1.758	0.1849
CDKAL1	rs75228175	21579117 C,T	0.9479	0.5358	-0.165	0.124	1.7554	0.1852
CDKAL1	rs7754702	21696403 T,C	0.9482	0.5267	-0.507	0.383	1.7516	0.1857
CDKAL1	rs116443937	21600982 A,T	0.9889	0.6106	-8.628	6.547	1.7367	0.1876
CDKAL1	rs35487983	21739331 R,D	0.6885	0.8315	0.084	0.064	1.7332	0.188
CDKAL1	rs77394991	21735578 C,T	0.8447	0.9263	-0.146	0.111	1.7332	0.188
CDKAL1	rs59015153	21574306 T,A	0.9504	0.4712	-0.287	0.22	1.7049	0.1916
CDKAL1	rs531584400	21574100 R,D	0.9506	0.471	-0.288	0.22	1.7026	0.192
CDKAL1	rs112653724	21576915 G,A	0.9388	0.5234	-0.164	0.126	1.7009	0.1922
CDKAL1	rs7754895	21696533 T,C	0.9459	0.5325	-0.492	0.378	1.695	0.1929
CDKAL1	rs112617138	21576898 A,G	0.938	0.5193	-0.163	0.125	1.6947	0.193
CDKAL1	rs115252874	21601345 A,C	0.9891	0.6163	-8.429	6.496	1.6835	0.1945
CDKAL1	rs7772692	21696544 A,G	0.9472	0.5318	-0.493	0.381	1.6759	0.1955
CDKAL1	rs118074543	21601297 C,G	0.9891	0.6166	-8.369	6.498	1.659	0.1977
CDKAL1	rs73737557	21570448 T,C	0.9333	0.4619	-0.22	0.171	1.6544	0.1984
CDKAL1	rs146150526	21575243 T,C	0.9263	0.5346	-0.161	0.126	1.6452	0.1996
CDKAL1	rs113196987	21575419 A,G	0.9232	0.5162	-0.16	0.125	1.6421	0.2
CDKAL1	rs9466128	21606679 G,T	0.3766	0.995	0.077	0.06	1.6365	0.2008
CDKAL1	rs147276150	21701200 A,G	0.9274	0.4176	0.22	0.172	1.633	0.2013
CDKAL1	rs62406884	21696308 C,T	0.9205	0.414	0.222	0.174	1.6243	0.2025
CDKAL1	rs6918842	21691009 C,T	0.5679	0.9924	-0.085	0.068	1.587	0.2078
CDKAL1	rs9466141	21673993 C,T	0.9236	0.9976	-91.389	72.691	1.5806	0.2087
CDKAL1	rs7738506	21702690 A,T	0.9888	0.6716	-3.021	2.428	1.5479	0.2134
CDKAL1	rs1475149	21688142 G,A	0.5662	0.9247	-0.086	0.07	1.5278	0.2164
CDKAL1	rs66735249	21686666 D,R	0.551	0.8357	-0.089	0.072	1.5243	0.217
CDKAL1	rs116258702	21618081 C,T	0.9891	0.5647	-8.025	6.542	1.5048	0.2199
CDKAL1	rs113889001	21695381 A,C	0.9496	0.5091	-0.536	0.44	1.482	0.2235
CDKAL1	rs116216476	21700308 T,C	0.9886	0.6467	-1.981	1.634	1.4708	0.2252
CDKAL1	rs528217121	21702677 R,D	0.9888	0.6785	-2.906	2.414	1.4493	0.2286
CDKAL1	rs34954830	21632488 R,I	0.9584	0.5469	-4.334	3.638	1.4196	0.2335
CDKAL1	rs1973986	21687571 A,T	0.5557	0.8895	-0.083	0.071	1.3814	0.2399
CDKAL1	rs1555287	21686091 G,A	0.5629	0.8575	-0.084	0.072	1.3793	0.2402
CDKAL1	rs530522537	21694259 R,D	0.9305	0.6164	-0.441	0.376	1.3757	0.2408
CDKAL1	rs114981716	21562453 G,A	0.977	0.3896	-0.368	0.321	1.315	0.2515
CDKAL1	rs2181318	21691468 T,C	0.549	0.9168	-0.079	0.069	1.3119	0.2521
CDKAL1	rs141253251	21567552 G,A	0.9772	0.4147	-0.358	0.313	1.3098	0.2524
CDKAL1	rs185847252	21676018 G,A	0.9496	0.8487	-42.054	37.345	1.2681	0.2601
CDKAL1	rs79337490	21695025 T,C	0.9508	0.5151	-0.498	0.449	1.2278	0.2678
CDKAL1	rs79002033	21706995 C,T	0.9739	0.6771	-2.064	1.865	1.2246	0.2685
CDKAL1	rs112117324	21606452 C,T	0.9756	0.8592	-5.177	4.684	1.2215	0.2691
CDKAL1	rs144178641	21622568 C,T	0.984	0.926	-20.765	18.804	1.2195	0.2695

CDKAL1	rs111405274	21694954	A,G	0.9508	0.5151	-0.497	0.45	1.2176	0.2698
CDKAL1	rs4712623	21688978	C,T	0.638	0.848	0.077	0.07	1.1973	0.2739
CDKAL1	rs10080820	21655815	C,G	0.983	0.7561	-5.366	4.906	1.1961	0.2741
CDKAL1	rs9366408	21742607	G,A	0.9822	0.9856	49.842	45.78	1.1853	0.2763
CDKAL1	rs61157774	21556217	C,T	0.9598	0.3134	-0.398	0.366	1.1797	0.2774
CDKAL1	rs59880840	21556245	G,A	0.9598	0.3138	-0.397	0.366	1.1743	0.2785
CDKAL1	rs7744188	21694601	T,C	0.9149	0.6416	-0.314	0.29	1.1732	0.2787
CDKAL1	rs7775506	21729962	C,T	0.4216	0.9976	-0.061	0.057	1.1561	0.2823
CDKAL1	rs111928481	21648542	T,A	0.9738	0.8848	-0.245	0.229	1.1456	0.2845
CDKAL1	rs76475505	21611890	T,G	0.9837	0.9609	-32.286	30.249	1.1392	0.2858
CDKAL1	rs9466129	21610137	C,G	0.9838	0.9565	-32.286	30.249	1.1392	0.2858
CDKAL1	rs189742413	21683505	C,T	0.984	0.4632	-0.387	0.363	1.1386	0.2859
CDKAL1	rs77155105	21682861	C,G	0.9671	0.7117	-0.405	0.384	1.1146	0.2911
CDKAL1	rs145648458	21636404	T,C	0.9762	0.7475	-4.963	4.714	1.1087	0.2924
CDKAL1	rs77273443	21620705	G,A	0.984	0.938	-21.526	20.471	1.1058	0.293
CDKAL1	rs7739186	21657833	T,C	0.9158	0.8085	-0.137	0.131	1.1016	0.2939
CDKAL1	rs9348483	21687390	G,T	0.7953	0.87	0.078	0.075	1.0969	0.2949
CDKAL1	rs61197304	21570213	G,A	0.9581	0.4232	-0.319	0.305	1.0947	0.2954
CDKAL1	rs12333123	21640660	G,A	0.9848	0.7705	-6.395	6.117	1.093	0.2958
CDKAL1	rs12528487	21735354	A,G	0.8629	0.9338	-0.127	0.122	1.0914	0.2962
CDKAL1	rs60459153	21570941	G,A	0.9572	0.4198	-0.317	0.304	1.0901	0.2964
CDKAL1	rs9460670	21731138	C,A	0.877	0.9736	-0.126	0.121	1.0892	0.2967
CDKAL1	rs115900264	21738499	A,G	0.8705	0.965	-0.126	0.121	1.0882	0.2969
CDKAL1	rs57690989	21652353	T,G	0.9629	0.903	-0.2	0.192	1.0879	0.2969
CDKAL1	rs80230506	21655914	C,A	0.9607	0.7829	-0.301	0.289	1.0868	0.2972
CDKAL1	rs75179770	21568397	C,T	0.9582	0.4017	-0.323	0.311	1.0788	0.299
CDKAL1	rs78474141	21604475	G,T	0.9839	0.9516	-66.586	64.12	1.0784	0.2991
CDKAL1	rs4710982	21733835	G,C	0.8653	0.9343	-0.125	0.121	1.0768	0.2994
CDKAL1	rs12525631	21730840	C,T	0.8794	0.9968	-0.124	0.12	1.074	0.3
CDKAL1	rs16885189	21729682	G,A	0.8667	0.9973	-0.124	0.12	1.074	0.3
CDKAL1	rs4712633	21738249	A,G	0.8598	1	-0.124	0.12	1.074	0.3
CDKAL1	rs9466136	21653258	C,T	0.905	0.8569	-0.118	0.114	1.0724	0.3004
CDKAL1	rs116300170	21663541	G,A	0.9641	0.8099	-0.329	0.319	1.0653	0.302
CDKAL1	rs143796183	21587351	G,A	0.9851	0.3168	1.083	1.049	1.0655	0.302
CDKAL1	rs9460657	21660051	C,T	0.8938	0.8161	-0.135	0.131	1.0631	0.3025
CDKAL1	rs80264536	21666345	T,G	0.9437	0.7836	-0.313	0.304	1.0592	0.3034
CDKAL1	rs76062205	21666427	C,T	0.9438	0.7852	-0.312	0.304	1.0553	0.3043
CDKAL1	rs77354845	21621783	A,G	0.9841	0.9371	-19.309	18.802	1.0547	0.3044
CDKAL1	rs116104882	21654116	G,C	0.9607	0.7845	-0.291	0.284	1.049	0.3057
CDKAL1	rs78870816	21665363	C,T	0.9434	0.7804	-0.311	0.304	1.0448	0.3067
CDKAL1	rs7751397	21662535	C,T	0.9285	0.8402	-0.135	0.132	1.0434	0.307
CDKAL1	rs116300465	21738509	T,G	0.8638	0.9326	-0.118	0.116	1.0429	0.3072
CDKAL1	rs2876599	21714103	C,G	0.9889	0.7808	-59.464	58.4	1.0368	0.3086
CDKAL1	rs73737565	21664442	T,G	0.9768	0.5564	-13.354	13.133	1.0339	0.3093
CDKAL1	rs116697959	21668594	A,T	0.9652	0.8312	-0.326	0.321	1.0306	0.31

CDKAL1	rs113989215	21665766 A,C	0.9131	0.855	-0.119	0.117	1.03	0.3101
CDKAL1	rs7771671	21662524 T,G	0.9284	0.8382	-0.134	0.132	1.0292	0.3103
CDKAL1	rs111412021	21606278 T,C	0.9882	0.8163	-0.241	0.238	1.0276	0.3107
CDKAL1	rs112837708	21696451 G,A	0.9648	0.4436	-0.628	0.62	1.0277	0.3107
CDKAL1	rs76501983	21631411 G,A	0.9854	0.8228	-0.232	0.229	1.0267	0.3109
CDKAL1	rs74492370	21679606 G,A	0.9678	0.8228	-0.325	0.321	1.0249	0.3114
CDKAL1	rs78971333	21679601 C,T	0.9678	0.8229	-0.325	0.321	1.0249	0.3114
CDKAL1	rs138585583	21678890 R,D	0.8749	0.9014	-0.118	0.117	1.0222	0.312
CDKAL1	rs79169915	21607457 G,A	0.9882	0.848	-0.241	0.239	1.0203	0.3124
CDKAL1	rs76944255	21582643 G,A	0.981	0.4687	-0.241	0.238	1.0192	0.3127
CDKAL1	rs75157802	21678178 A,G	0.9675	0.834	-0.316	0.313	1.0169	0.3133
CDKAL1	rs76857610	21685543 G,T	0.9888	0.4734	-1.103	1.094	1.0169	0.3133
CDKAL1	rs6456440	21658236 C,A	0.9344	0.7776	-0.222	0.22	1.0164	0.3134
CDKAL1	rs546083928	21596246 R,I	0.9877	0.6818	-0.24	0.238	1.0158	0.3135
CDKAL1	rs76934110	21669629 G,A	0.9626	0.7982	-0.322	0.321	1.0113	0.3146
CDKAL1	rs190176895	21629550 C,A	0.9877	0.7487	-0.239	0.238	1.0095	0.315
CDKAL1	rs113842280	21611571 T,G	0.9848	0.967	-0.228	0.228	1.0076	0.3155
CDKAL1	rs80061387	21579793 T,C	0.9808	0.4585	-0.24	0.239	1.007	0.3156
CDKAL1	rs112102336	21677692 G,T	0.9639	0.7866	-0.311	0.31	1.0068	0.3157
CDKAL1	rs73737568	21667546 A,G	0.9719	0.8789	-0.226	0.225	1.0068	0.3157
CDKAL1	rs112650104	21611568 C,G	0.9871	0.889	-0.238	0.237	1.0049	0.3161
CDKAL1	rs112538002	21611751 T,C	0.9848	0.97	-0.228	0.228	1.0046	0.3162
CDKAL1	rs7762989	21624153 C,T	0.9883	0.8214	-0.239	0.238	1.0045	0.3162
CDKAL1	rs6941897	21671979 C,A	0.9897	0.6097	-0.252	0.252	1.0042	0.3163
CDKAL1	rs111411936	21626246 G,A	0.9877	0.7672	-0.238	0.238	1.0036	0.3164
CDKAL1	rs73374488	21666188 G,A	0.9707	0.8902	-0.226	0.225	1.0037	0.3164
CDKAL1	rs75509154	21670162 A,G	0.9656	0.8408	-0.321	0.321	1.0031	0.3166
CDKAL1	rs111228858	21612309 G,A	0.9872	0.8945	-0.237	0.237	1.0018	0.3169
CDKAL1	rs6934807	21653677 A,G	0.9709	0.9814	-0.228	0.227	1.0017	0.3169
CDKAL1	rs78923341	21612472 A,C	0.9872	0.895	-0.237	0.237	1.0018	0.3169
CDKAL1	rs6933506	21673857 T,C	0.9717	0.871	-0.223	0.223	1.0013	0.317
CDKAL1	rs117971178	21674146 C,T	0.9852	0.5427	-227.51	227.477	1.0003	0.3172
CDKAL1	rs145952396	21677173 C,T	0.9854	0.5637	-56.876	56.869	1.0003	0.3172
CDKAL1	rs147045541	21675767 C,T	0.9834	0.576	-227.51	227.477	1.0003	0.3172
CDKAL1	rs9295516	21673560 C,T	0.9483	0.8605	-75.835	75.826	1.0003	0.3172
CDKAL1	rs9466126	21601762 A,C	0.9836	0.9467	-227.51	227.477	1.0003	0.3172
CDKAL1	rs9466127	21602745 G,A	0.9739	0.9906	-227.51	227.477	1.0003	0.3172
CDKAL1	rs142641808	21677158 C,T	0.9656	0.7625	-0.312	0.312	0.9987	0.3176
CDKAL1	rs113455272	21616778 T,C	0.9824	0.9392	-0.227	0.228	0.9981	0.3178
CDKAL1	rs59187080	21668625 G,A	0.966	0.7875	-0.188	0.188	0.9978	0.3179
CDKAL1	rs111887738	21616944 T,C	0.9828	0.9369	-0.227	0.228	0.9973	0.318
CDKAL1	rs147488932	21672276 G,A	0.9657	0.8442	-0.32	0.321	0.997	0.318
CDKAL1	rs112553613	21616239 A,G	0.9848	0.9676	-0.227	0.228	0.9913	0.3194
CDKAL1	rs10557323	21615430 R,D	0.9849	0.974	-0.227	0.228	0.9911	0.3195
CDKAL1	rs77222012	21614945 G,A	0.9849	0.9755	-0.226	0.228	0.9878	0.3203

CDKAL1	rs71657670	21613526	R,D	0.9864	0.77	-0.236	0.238	0.9862	0.3207
CDKAL1	rs185494084	21636537	T,C	0.9884	0.4475	-0.321	0.324	0.9843	0.3211
CDKAL1	rs6935968	21613156	G,A	0.9849	0.9776	-0.226	0.228	0.9844	0.3211
CDKAL1	rs75127321	21613946	G,A	0.9849	0.9767	-0.226	0.228	0.9844	0.3211
CDKAL1	rs543173991	21629474	T,A	0.9884	0.7664	-0.259	0.262	0.9786	0.3225
CDKAL1	rs114455294	21693186	A,T	0.9731	0.5546	-0.432	0.437	0.9762	0.3231
CDKAL1	rs12374633	21654974	G,A	0.9698	0.9337	-0.224	0.228	0.9676	0.3253
CDKAL1	rs145545902	21735584	D,R	0.6454	0.9341	-0.072	0.073	0.9585	0.3276
CDKAL1	rs60336041	21714991	A,C	0.9818	0.9007	-32.268	33.205	0.9443	0.3312
CDKAL1	rs7740486	21714797	A,G	0.9818	0.8978	-32.268	33.205	0.9443	0.3312
CDKAL1	rs549313068	21638634	R,D	0.9854	0.7268	-0.237	0.245	0.9381	0.3328
CDKAL1	rs114977922	21638119	C,G	0.9762	0.7437	-4.252	4.4	0.9339	0.3339
CDKAL1	rs113815998	21709365	G,T	0.9608	0.7324	-0.257	0.266	0.9298	0.3349
CDKAL1	rs139581361	21722128	G,A	0.9879	0.8119	-13.724	14.24	0.9288	0.3352
CDKAL1	rs9358442	21573637	G,A	0.7034	0.4581	-0.085	0.088	0.9232	0.3366
CDKAL1	rs149385127	21642947	G,A	0.9849	0.723	-0.234	0.244	0.9183	0.3379
CDKAL1	rs78378200	21647275	T,C	0.985	0.7319	-0.234	0.245	0.914	0.3391
CDKAL1	rs79853707	21699451	C,T	0.986	0.5502	-0.399	0.417	0.9131	0.3393
CDKAL1	rs113183700	21702524	A,G	0.9869	0.5842	-0.34	0.357	0.9066	0.341
CDKAL1	rs111374956	21699545	G,C	0.9871	0.5681	-0.395	0.415	0.9063	0.3411
CDKAL1	rs143636013	21649787	G,C	0.9413	0.7828	-0.219	0.23	0.9054	0.3413
CDKAL1	rs111928162	21706372	T,C	0.9868	0.6035	-0.299	0.315	0.9021	0.3422
CDKAL1	rs150235785	21638293	G,A	0.9849	0.7598	-6.89	7.26	0.9007	0.3426
CDKAL1	rs11966675	21640125	G,A	0.9761	0.7522	-3.633	3.832	0.8986	0.3432
CDKAL1	rs74323084	21645152	C,G	0.9857	0.7691	-0.23	0.244	0.8845	0.347
CDKAL1	rs148775927	21677832	C,G	0.9884	0.5129	-0.313	0.333	0.883	0.3474
CDKAL1	rs375807437	21686609	R,D	0.5634	0.7421	-0.07	0.074	0.8741	0.3498
CDKAL1	rs141765572	21679089	G,T	0.9877	0.5484	-0.321	0.343	0.8735	0.35
CDKAL1	rs7753199	21717706	G,A	0.9819	0.9391	-106.23	113.739	0.8723	0.3503
CDKAL1	rs7757232	21717818	G,A	0.9819	0.9404	-106.23	113.739	0.8723	0.3503
CDKAL1	rs7757467	21718123	C,T	0.9813	0.9676	-212.46	227.477	0.8723	0.3503
CDKAL1	rs11753001	21726506	T,C	0.9147	0.5112	0.137	0.147	0.8716	0.3505
CDKAL1	rs78937245	21738761	C,T	0.9864	0.6447	-0.257	0.276	0.8705	0.3508
CDKAL1	rs182063949	21738643	T,A	0.9864	0.6453	-0.257	0.276	0.87	0.351
CDKAL1	rs77258728	21734254	G,A	0.9872	0.709	-0.251	0.27	0.869	0.3512
CDKAL1	rs147596047	21733524	R,D	0.9872	0.709	-0.251	0.269	0.8671	0.3517
CDKAL1	rs149746556	21731479	R,D	0.9872	0.7098	-0.25	0.268	0.8665	0.3519
CDKAL1	rs75935729	21733252	C,A	0.9872	0.709	-0.251	0.269	0.8665	0.3519
CDKAL1	rs78584490	21732145	C,T	0.9872	0.7096	-0.249	0.268	0.8645	0.3525
CDKAL1	rs138882930	21638300	A,G	0.9761	0.7432	-4.043	4.35	0.8638	0.3527
CDKAL1	rs78098947	21713740	C,T	0.989	0.7788	-64.733	69.688	0.8629	0.3529
CDKAL1	rs78686872	21566786	T,C	0.9087	0.4686	-0.131	0.141	0.8607	0.3535
CDKAL1	rs12333154	21640855	G,A	0.976	0.751	-3.411	3.677	0.8605	0.3536
CDKAL1	rs78225455	21566785	T,A	0.9087	0.4686	-0.131	0.141	0.8598	0.3538
CDKAL1	rs115733488	21695961	T,C	0.9892	0.5305	-0.818	0.884	0.8546	0.3552

CDKAL1	rs56175726	21566498	G,A	0.9534	0.3503	-0.289	0.313	0.8517	0.3561
CDKAL1	rs145907846	21729085	G,A	0.9868	0.8724	-19.014	20.68	0.8454	0.3579
CDKAL1	rs147273446	21638982	C,G	0.9761	0.7533	-3.768	4.116	0.8379	0.36
CDKAL1	rs148317817	21638986	G,A	0.9761	0.7532	-3.768	4.116	0.8379	0.36
CDKAL1	rs571788443	21558875	R,D	0.8581	0.3304	-0.121	0.132	0.8373	0.3602
CDKAL1	rs77991965	21694060	G,A	0.9358	0.6372	-0.333	0.364	0.8353	0.3607
CDKAL1	rs13220312	21671856	A,G	0.9734	0.7398	28.704	31.535	0.8285	0.3627
CDKAL1	rs547687648	21729656	R,I	0.7892	0.8727	0.063	0.069	0.8286	0.3627
CDKAL1	rs143393812	21633911	C,T	0.9816	0.5752	-3.16	3.48	0.8249	0.3638
CDKAL1	rs113932195	21562740	T,C	0.9088	0.469	-0.127	0.141	0.8171	0.366
CDKAL1	rs9295515	21641667	C,T	0.976	0.7495	-3.165	3.509	0.8138	0.367
CDKAL1	rs111479343	21561070	G,T	0.9092	0.4694	-0.126	0.14	0.8102	0.3681
CDKAL1	rs78714768	21631590	C,T	0.9845	0.8158	-24.284	27.089	0.8036	0.37
CDKAL1	rs7738599	21631790	A,G	0.9365	0.4203	-0.208	0.233	0.791	0.3738
CDKAL1	rs10155732	21639540	C,T	0.9761	0.7536	-3.538	3.982	0.7894	0.3743
CDKAL1	rs9460658	21684193	C,T	0.9792	0.347	-0.466	0.525	0.7864	0.3752
CDKAL1	rs10155733	21639594	C,T	0.9761	0.7534	-3.518	3.978	0.7821	0.3765
CDKAL1	rs11961107	21642740	G,A	0.9758	0.7454	-2.689	3.047	0.7792	0.3774
CDKAL1	rs527350470	21640569	R,D	0.9745	0.7043	-3.473	3.942	0.7762	0.3783
CDKAL1	rs9358450	21740882	A,G	0.746	0.858	0.053	0.06	0.7725	0.3795
CDKAL1	rs16885205	21743291	T,C	0.8644	0.5834	0.111	0.127	0.7677	0.3809
CDKAL1	rs58919806	21570038	G,A	0.8921	0.397	-0.126	0.145	0.7616	0.3828
CDKAL1	rs12332790	21642505	C,T	0.9758	0.7456	-2.675	3.073	0.7576	0.3841
CDKAL1	rs9466143	21676688	A,T	0.943	0.8542	-15.323	17.689	0.7504	0.3863
CDKAL1	rs1972212	21743761	C,T	0.8703	0.5142	0.117	0.135	0.7488	0.3868
CDKAL1	rs150184400	21642793	T,C	0.9758	0.7454	-2.606	3.023	0.7435	0.3885
CDKAL1	rs10080752	21655608	C,G	0.9819	0.7225	-3.375	3.939	0.7341	0.3916
CDKAL1	rs1555529	21691704	A,G	0.7822	0.9942	0.062	0.073	0.7214	0.3957
CDKAL1	rs113064891	21606092	R,I	0.9811	0.9369	-30.906	36.669	0.7103	0.3993
CDKAL1	rs548416728	21647978	R,D	0.9747	0.6618	-1.834	2.176	0.7101	0.3994
CDKAL1	rs9466133	21643948	C,T	0.9757	0.7442	-2.373	2.853	0.6918	0.4055
CDKAL1	rs113975012	21712110	A,T	0.9843	0.5172	-1.413	1.714	0.6794	0.4098
CDKAL1	rs9466169	21746181	A,G	0.8659	0.4166	0.124	0.151	0.6793	0.4098
CDKAL1	rs9460656	21643907	A,G	0.9758	0.7442	-2.358	2.876	0.6723	0.4123
CDKAL1	rs9358441	21565339	T,C	0.7025	0.3571	-0.086	0.105	0.6618	0.4159
CDKAL1	rs2251647	21677746	C,A	0.9512	0.9786	-0.09	0.111	0.6607	0.4163
CDKAL1	rs139032454	21644326	A,C	0.9757	0.7441	-2.288	2.816	0.6603	0.4164
CDKAL1	rs116016141	21687920	C,T	0.988	0.5009	-7.673	9.465	0.6571	0.4176
CDKAL1	rs142355149	21692662	A,C	0.9804	0.36	0.964	1.189	0.6565	0.4178
CDKAL1	rs56004640	21716262	A,G	0.8113	0.9096	0.069	0.085	0.6542	0.4186
CDKAL1	rs111442391	21730723	C,T	0.9726	0.3086	-0.212	0.266	0.6358	0.4252
CDKAL1	rs117804382	21656810	C,T	0.9855	0.5625	-6.204	7.821	0.6293	0.4276
CDKAL1	rs7746292	21685907	A,G	0.9762	0.4817	-0.77	0.971	0.6289	0.4278
CDKAL1	rs571632729	21726382	R,I	0.896	0.3926	-0.17	0.217	0.6192	0.4314
CDKAL1	rs114613272	21721382	C,T	0.984	0.8169	-7.465	9.511	0.616	0.4325

CDKAL1	rs9466158	21717309	T,C	0.7892	0.921	0.066	0.084	0.6115	0.4342
CDKAL1	rs4710983	21734202	C,T	0.767	0.9462	0.044	0.057	0.5854	0.4442
CDKAL1	rs7746424	21685920	C,T	0.9762	0.4981	-0.738	0.967	0.5833	0.445
CDKAL1	rs7746432	21685933	C,T	0.9755	0.5041	-0.738	0.967	0.5833	0.445
CDKAL1	rs150997476	21663402	A,T	0.9893	0.6383	-0.207	0.275	0.5673	0.4513
CDKAL1	rs7760462	21730877	G,C	0.4165	0.9846	-0.044	0.058	0.565	0.4522
CDKAL1	rs142460847	21687632	A,G	0.9751	0.5044	-0.719	0.959	0.5622	0.4534
CDKAL1	rs7746895	21686168	C,A	0.9752	0.5028	-0.719	0.96	0.5607	0.454
CDKAL1	rs115180462	21686653	G,C	0.9752	0.5032	-0.713	0.959	0.553	0.4571
CDKAL1	rs7747757	21686714	C,T	0.9752	0.5035	-0.713	0.959	0.553	0.4571
CDKAL1	rs34810044	21718703	R,D	0.7721	0.9072	0.062	0.084	0.5491	0.4587
CDKAL1	rs148767257	21687606	C,T	0.9752	0.5064	-0.708	0.958	0.5464	0.4598
CDKAL1	rs78278852	21688571	G,A	0.9753	0.5113	-0.704	0.957	0.5409	0.4621
CDKAL1	rs140066406	21728813	R,I	0.8701	0.9744	-0.1	0.136	0.5406	0.4622
CDKAL1	rs1740849	21619809	G,A	0.3637	0.9622	0.041	0.055	0.5399	0.4625
CDKAL1	rs9350368	21562144	A,G	0.6823	0.3726	-0.074	0.101	0.5369	0.4637
CDKAL1	rs79684204	21687368	A,C	0.9748	0.5098	-0.701	0.959	0.5341	0.4649
CDKAL1	rs11968460	21718604	G,A	0.8056	0.9024	0.061	0.084	0.5331	0.4653
CDKAL1	rs144306476	21721932	T,G	0.989	0.6617	-3.368	4.618	0.532	0.4658
CDKAL1	rs16885175	21726770	A,G	0.8585	0.8892	-0.1	0.138	0.5272	0.4678
CDKAL1	rs9368332	21731094	G,A	0.4156	0.9974	-0.042	0.058	0.5239	0.4692
CDKAL1	rs9466160	21722771	A,G	0.9736	0.8106	-2.534	3.523	0.5172	0.472
CDKAL1	rs9460671	21731289	G,C	0.41	0.9868	-0.042	0.058	0.5138	0.4735
CDKAL1	rs116598598	21654884	A,T	0.983	0.5411	-3.452	4.865	0.5034	0.478
CDKAL1	rs116779637	21718919	G,T	0.9886	0.7935	20.17	28.435	0.5031	0.4781
CDKAL1	rs6925407	21724100	G,C	0.9884	0.9399	1.169	1.648	0.5031	0.4781
CDKAL1	rs4712632	21732137	G,A	0.4138	0.9644	-0.041	0.058	0.4893	0.4842
CDKAL1	rs9366406	21617668	T,A	0.7397	0.9296	-0.043	0.062	0.4871	0.4852
CDKAL1	rs530398575	21733586	R,I	0.8629	0.4934	0.071	0.102	0.4848	0.4863
CDKAL1	rs4710981	21732702	G,C	0.4166	0.9635	-0.04	0.058	0.475	0.4907
CDKAL1	rs1617781	21608766	A,G	0.693	0.9819	-0.043	0.063	0.4692	0.4934
CDKAL1	rs146017644	21640727	C,T	0.9833	0.5529	-2.049	3.023	0.4597	0.4978
CDKAL1	rs6456437	21615443	T,C	0.7388	0.9506	-0.042	0.062	0.4547	0.5001
CDKAL1	rs11361021	21608909	D,R	0.6928	0.9683	-0.042	0.063	0.4532	0.5008
CDKAL1	rs1989470	21715067	T,A	0.5732	0.9562	-0.046	0.068	0.4505	0.5021
CDKAL1	rs78345714	21734098	T,C	0.9849	0.6839	-0.156	0.233	0.4501	0.5023
CDKAL1	rs1622043	21609285	A,G	0.6925	0.9814	-0.042	0.063	0.4465	0.504
CDKAL1	rs112395953	21727909	A,C	0.885	0.9741	-0.09	0.137	0.4363	0.5089
CDKAL1	rs9460650	21615371	T,C	0.9841	0.9776	-17.984	27.283	0.4345	0.5098
CDKAL1	rs1744855	21623715	G,A	0.3803	0.9708	0.036	0.054	0.4328	0.5106
CDKAL1	rs73376077	21720504	C,T	0.7969	0.9025	0.054	0.082	0.4227	0.5156
CDKAL1	rs201995762	21706002	R,I	0.9873	0.4393	-2.779	4.294	0.4188	0.5175
CDKAL1	rs57792403	21738640	R,D	0.4364	0.9838	-0.037	0.057	0.4137	0.5201
CDKAL1	rs840982	21740321	T,C	0.4378	0.9967	-0.037	0.057	0.413	0.5204
CDKAL1	rs840981	21740238	G,A	0.4381	1	-0.036	0.057	0.4086	0.5227

CDKAL1	rs7739775	21727465 C,T	0.87	0.9769	-0.086	0.136	0.4026	0.5257
CDKAL1	rs73392015	21591766 C,T	0.9671	0.4088	0.824	1.312	0.3939	0.5303
CDKAL1	rs9466159	21721313 A,G	0.8227	0.9323	0.052	0.082	0.3938	0.5303
CDKAL1	rs183503583	21638847 G,A	0.9885	0.5492	-2.518	4.042	0.3879	0.5334
CDKAL1	rs1744887	21674378 G,T	0.9679	0.3275	0.276	0.447	0.3812	0.537
CDKAL1	rs7772335	21696185 C,T	0.8913	0.4593	-0.112	0.182	0.3782	0.5386
CDKAL1	rs71563995	21676342 A,G	0.9697	0.7188	-26.366	43.203	0.3724	0.5417
CDKAL1	rs150435139	21707497 A,G	0.9874	0.4469	-2.569	4.225	0.3697	0.5431
CDKAL1	rs9368333	21743631 A,C	0.9748	0.5254	9.281	15.355	0.3654	0.5455
CDKAL1	rs56050802	21555539 C,T	0.8664	0.6128	-0.058	0.096	0.3647	0.5459
CDKAL1	rs116187696	21639646 G,A	0.9868	0.5351	-2.142	3.581	0.3577	0.5498
CDKAL1	rs80035391	21685357 G,A	0.8973	0.5163	0.103	0.173	0.3529	0.5525
CDKAL1	rs1620996	21602552 C,T	0.8959	0.8139	-0.068	0.114	0.3524	0.5528
CDKAL1	rs61661762	21588463 A,G	0.9883	0.3149	-0.184	0.312	0.3486	0.5549
CDKAL1	rs1740830	21648615 C,T	0.867	0.7367	0.064	0.109	0.3478	0.5554
CDKAL1	rs570404489	21689796 R,D	0.7798	0.3015	0.105	0.18	0.3396	0.56
CDKAL1	rs78825652	21609539 I,R	0.6732	0.9671	-0.036	0.063	0.3385	0.5607
CDKAL1	rs4712631	21710896 C,T	0.586	0.9993	-0.039	0.067	0.3363	0.562
CDKAL1	rs9466156	21711491 C,T	0.5874	0.9998	-0.039	0.067	0.3363	0.562
CDKAL1	rs61215435	21721256 C,T	0.9893	0.7083	4.883	8.429	0.3356	0.5624
CDKAL1	rs1740852	21608979 T,C	0.895	0.9932	-0.059	0.102	0.3332	0.5638
CDKAL1	rs1744856	21625895 G,A	0.6341	0.4717	0.048	0.084	0.3255	0.5683
CDKAL1	rs58572340	21555505 T,A	0.8729	0.5846	-0.06	0.106	0.3226	0.5701
CDKAL1	rs7759991	21609547 C,T	0.6977	0.9669	-0.035	0.063	0.3215	0.5707
CDKAL1	rs1744848	21609563 C,T	0.6977	0.9669	-0.035	0.063	0.3186	0.5724
CDKAL1	rs149768565	21719941 R,D	0.9754	0.6872	-2.872	5.115	0.3152	0.5745
CDKAL1	rs78265086	21720541 T,C	0.9826	0.8636	7.469	13.391	0.3111	0.577
CDKAL1	rs1740828	21649085 A,G	0.5436	0.4642	0.05	0.091	0.3082	0.5788
CDKAL1	rs111404042	21565201 G,A	0.9548	0.5207	-0.094	0.173	0.2928	0.5884
CDKAL1	rs4712620	21554898 A,C	0.6509	0.3847	-0.048	0.09	0.2888	0.591
CDKAL1	rs561391795	21725044 R,D	0.9346	0.4431	-0.164	0.309	0.283	0.5947
CDKAL1	rs9466140	21673293 A,G	0.9286	0.9271	13.445	25.345	0.2814	0.5958
CDKAL1	rs79883278	21720741 C,T	0.9819	0.8353	5.194	9.889	0.2759	0.5994
CDKAL1	rs7759495	21706044 G,A	0.6142	0.9046	-0.037	0.072	0.2651	0.6066
CDKAL1	rs545611803	21688770 R,I	0.8158	0.533	0.065	0.126	0.2631	0.608
CDKAL1	rs1973987	21687659 G,T	0.8711	0.6956	0.074	0.145	0.2608	0.6096
CDKAL1	rs1322883	21720796 A,G	0.5867	0.9164	-0.037	0.075	0.2481	0.6184
CDKAL1	rs75629001	21689221 C,T	0.8716	0.708	0.071	0.144	0.2458	0.6201
CDKAL1	rs150555050	21561633 G,A	0.9894	0.5125	-14.64	29.676	0.2434	0.6218
CDKAL1	rs76257188	21688091 T,G	0.8712	0.7018	0.071	0.145	0.2425	0.6224
CDKAL1	rs77992585	21687331 G,A	0.8724	0.6862	0.072	0.146	0.2413	0.6233
CDKAL1	rs200447839	21689115 R,D	0.8701	0.7188	0.07	0.142	0.2409	0.6235
CDKAL1	rs1321253	21689813 T,A	0.8723	0.7273	0.069	0.142	0.2354	0.6276
CDKAL1	rs12183824	21726382 G,A	0.8184	0.3562	-0.096	0.199	0.2343	0.6283
CDKAL1	rs60048426	21556513 G,A	0.947	0.5576	-0.082	0.17	0.2317	0.6303

CDKAL1	rs1744861	21627986	A,T	0.3793	0.9676	0.026	0.054	0.2314	0.6305
CDKAL1	rs12524788	21690518	T,G	0.8725	0.7375	0.067	0.141	0.2301	0.6314
CDKAL1	rs6924745	21693837	C,T	0.8421	0.8514	0.046	0.097	0.2279	0.633
CDKAL1	rs75122426	21580566	T,C	0.985	0.6235	-25.32	55.397	0.2089	0.6476
CDKAL1	rs6933476	21720156	G,A	0.9819	0.8936	7.369	16.168	0.2078	0.6485
CDKAL1	rs1744876	21651003	T,C	0.8157	0.9901	0.03	0.067	0.1948	0.6589
CDKAL1	rs9350367	21555608	C,T	0.6563	0.3839	-0.041	0.093	0.1927	0.6607
CDKAL1	rs11438117	21660100	R,I	0.4211	0.4868	0.031	0.072	0.189	0.6637
CDKAL1	rs201884896	21657694	D,R	0.9455	0.3238	0.082	0.189	0.1879	0.6646
CDKAL1	rs574039752	21629819	R,D	0.3639	0.9279	0.023	0.054	0.1868	0.6656
CDKAL1	rs1744878	21652230	A,C	0.8076	0.9338	0.028	0.067	0.181	0.6705
CDKAL1	rs1744866	21631188	C,T	0.9885	0.3807	-0.497	1.172	0.1797	0.6716
CDKAL1	rs36024930	21605537	R,D	0.7795	0.8154	-0.03	0.072	0.1764	0.6745
CDKAL1	rs9466164	21723538	A,G	0.8284	0.9494	0.033	0.079	0.1714	0.6789
CDKAL1	rs7772337	21726278	C,T	0.8256	0.9612	0.032	0.078	0.1689	0.6811
CDKAL1	rs6456442	21698279	T,C	0.5821	0.821	-0.033	0.081	0.1649	0.6847
CDKAL1	rs62403977	21725337	C,T	0.8232	0.9705	0.032	0.078	0.1639	0.6855
CDKAL1	rs141900910	21647244	C,T	0.9864	0.543	-1.036	2.565	0.1633	0.6861
CDKAL1	rs9460668	21727929	C,G	0.8216	0.9705	0.031	0.078	0.1608	0.6885
CDKAL1	rs117538721	21647180	T,C	0.986	0.5245	-1.001	2.499	0.1606	0.6886
CDKAL1	rs138387168	21716280	C,T	0.9765	0.7359	-1.262	3.228	0.1528	0.6958
CDKAL1	rs35857450	21622415	D,R	0.6703	0.8902	-0.023	0.059	0.1519	0.6967
CDKAL1	rs369470901	21707320	R,I	0.6014	0.9269	-0.029	0.074	0.151	0.6976
CDKAL1	rs9460660	21709294	T,C	0.616	0.9365	-0.028	0.072	0.1491	0.6993
CDKAL1	rs7772258	21686985	T,C	0.8466	0.7118	0.055	0.142	0.1474	0.701
CDKAL1	rs79232286	21689146	G,A	0.8483	0.7428	0.053	0.14	0.1462	0.7022
CDKAL1	rs59759742	21707319	T,G	0.6009	0.9285	-0.028	0.074	0.144	0.7043
CDKAL1	rs62403974	21713978	T,C	0.7736	0.9053	0.029	0.076	0.1425	0.7058
CDKAL1	rs141007801	21722788	R,I	0.8394	0.8482	0.033	0.088	0.1413	0.707
CDKAL1	rs140423760	21646093	C,A	0.9884	0.552	-1.123	3.009	0.1393	0.709
CDKAL1	rs1740864	21668282	G,A	0.6096	0.9094	0.02	0.055	0.1354	0.7129
CDKAL1	rs68015368	21645499	I,R	0.8315	0.7435	0.028	0.077	0.1304	0.718
CDKAL1	rs57761609	21683420	D,R	0.6127	0.8292	0.021	0.058	0.1303	0.7182
CDKAL1	rs36093392	21601725	D,R	0.7127	0.8142	-0.024	0.068	0.1259	0.7227
CDKAL1	rs9460666	21726380	G,A	0.9296	0.3512	0.1	0.282	0.1256	0.7231
CDKAL1	rs9295513	21599766	G,A	0.9746	0.8988	9.987	28.253	0.125	0.7237
CDKAL1	rs1740834	21645207	C,T	0.7742	0.9378	0.022	0.063	0.1205	0.7285
CDKAL1	rs1740838	21632759	G,T	0.3851	0.7571	0.022	0.063	0.1195	0.7295
CDKAL1	rs6456438	21632215	G,A	0.7029	0.9547	0.019	0.056	0.1171	0.7322
CDKAL1	rs111684701	21608562	C,T	0.9809	0.9509	-25.924	75.826	0.1169	0.7324
CDKAL1	rs112892524	21608321	C,T	0.981	0.9464	-25.924	75.826	0.1169	0.7324
CDKAL1	rs11433545	21672216	R,I	0.5947	0.6034	-0.024	0.071	0.1144	0.7352
CDKAL1	rs116878740	21665291	A,G	0.9855	0.5757	-8.241	24.52	0.113	0.7368
CDKAL1	rs141673420	21695454	T,C	0.9835	0.3745	0.207	0.63	0.1084	0.7419
CDKAL1	rs1744881	21657548	G,A	0.8047	0.8556	0.022	0.066	0.1069	0.7437

CDKAL1	rs1740837	21633917	C,T	0.6783	0.9174	-0.019	0.06	0.1067	0.7439
CDKAL1	rs140643662	21664544	G,A	0.9855	0.5752	-7.235	22.425	0.1041	0.747
CDKAL1	rs1744889	21676795	A,G	0.6165	0.9936	0.017	0.053	0.1023	0.7491
CDKAL1	rs1740863	21670641	C,T	0.6246	0.9994	0.017	0.053	0.1016	0.7499
CDKAL1	rs9466145	21677060	A,C	0.6171	1	0.017	0.053	0.1016	0.7499
CDKAL1	rs571708107	21634038	D,R	0.6795	0.8686	-0.019	0.06	0.1015	0.75
CDKAL1	rs2749684	21676485	C,T	0.6168	0.9872	0.017	0.053	0.0998	0.752
CDKAL1	rs11327351	21623643	D,R	0.6711	0.9267	-0.018	0.058	0.0998	0.7521
CDKAL1	rs1744864	21630684	C,T	0.7008	1	0.017	0.054	0.0991	0.7529
CDKAL1	rs201513044	21589010	R,D	0.9897	0.4337	0.478	1.52	0.0989	0.7532
CDKAL1	rs1744885	21670816	A,G	0.4476	0.9803	-0.016	0.053	0.0958	0.7569
CDKAL1	rs9466154	21706155	G,T	0.6423	0.8816	-0.023	0.076	0.0954	0.7574
CDKAL1	rs1740854	21680732	A,C	0.6112	0.9639	0.016	0.053	0.0949	0.7581
CDKAL1	rs6939472	21661019	G,C	0.7866	0.7792	0.02	0.065	0.0936	0.7597
CDKAL1	rs5874828	21692948	R,D	0.8716	0.725	0.043	0.142	0.0926	0.761
CDKAL1	rs12528435	21562732	G,A	0.8866	0.355	-0.051	0.167	0.091	0.7629
CDKAL1	rs6912946	21659978	A,T	0.8051	0.821	0.019	0.065	0.0893	0.765
CDKAL1	rs1740835	21637725	G,A	0.7724	0.8961	0.019	0.065	0.0871	0.7678
CDKAL1	rs1740839	21629928	G,A	0.7114	0.9827	0.016	0.055	0.086	0.7694
CDKAL1	rs112101248	21683625	T,C	0.9893	0.5442	-3.082	10.688	0.0832	0.773
CDKAL1	rs1744890	21678059	A,G	0.8017	0.7924	0.018	0.061	0.0825	0.7739
CDKAL1	rs1740836	21634644	G,A	0.7705	0.8935	0.018	0.065	0.08	0.7773
CDKAL1	rs5874825	21634749	I,R	0.7699	0.8924	0.018	0.065	0.0793	0.7782
CDKAL1	rs7751661	21621850	G,A	0.6705	1	-0.016	0.055	0.0784	0.7794
CDKAL1	rs1740846	21621045	A,G	0.6874	0.9924	-0.016	0.056	0.0775	0.7806
CDKAL1	rs147268567	21621169	D,R	0.6874	0.993	-0.016	0.056	0.0775	0.7807
CDKAL1	rs1740845	21621731	G,A	0.6871	0.9929	-0.016	0.056	0.0775	0.7807
CDKAL1	rs1744852	21621724	A,G	0.6871	0.9927	-0.016	0.056	0.0775	0.7807
CDKAL1	rs149019701	21621670	D,R	0.6874	0.9939	-0.016	0.056	0.0774	0.7808
CDKAL1	rs542285387	21621459	I,R	0.6862	0.9884	-0.016	0.056	0.0773	0.7811
CDKAL1	rs1740860	21678055	T,C	0.7991	0.7824	0.017	0.061	0.075	0.7842
CDKAL1	rs9460651	21622531	G,T	0.672	0.9951	-0.015	0.055	0.0748	0.7845
CDKAL1	rs117537289	21661595	C,T	0.9854	0.5671	-4.239	15.622	0.0736	0.7861
CDKAL1	rs11330136	21629471	D,R	0.7	0.9778	0.015	0.055	0.0727	0.7875
CDKAL1	rs1740848	21620293	G,A	0.6882	0.9886	-0.015	0.057	0.0722	0.7882
CDKAL1	rs1740847	21620469	C,A	0.6882	0.9889	-0.015	0.057	0.072	0.7884
CDKAL1	rs562901644	21554922	R,D	0.9157	0.7168	-0.029	0.109	0.0706	0.7905
CDKAL1	rs80349490	21615188	T,C	0.9491	0.4807	0.054	0.208	0.0663	0.7968
CDKAL1	rs1615194	21648442	T,C	0.7437	0.9296	0.016	0.063	0.0653	0.7982
CDKAL1	rs79847215	21560355	C,A	0.9848	0.3334	0.102	0.402	0.0641	0.8001
CDKAL1	rs1744875	21648534	C,A	0.4998	0.4732	-0.021	0.087	0.0611	0.8048
CDKAL1	rs35605844	21674022	D,R	0.6185	0.9309	0.013	0.054	0.0598	0.8068
CDKAL1	rs79846403	21723244	C,T	0.8348	0.8403	0.02	0.083	0.0589	0.8083
CDKAL1	rs138691949	21653247	A,T	0.9812	0.5466	-0.738	3.121	0.0559	0.813
CDKAL1	rs1740844	21622871	C,T	0.6724	0.9911	-0.013	0.056	0.0555	0.8137

CDKAL1	rs7772583	21726279	G,A	0.6306	0.9061	-0.017	0.074	0.0554	0.814
CDKAL1	rs1740833	21646435	A,G	0.6798	0.9621	-0.013	0.058	0.0542	0.8159
CDKAL1	rs7773111	21696531	G,A	0.6146	0.751	-0.021	0.088	0.0541	0.8161
CDKAL1	rs10643502	21641556	T,C	0.688	0.853	-0.014	0.062	0.0533	0.8174
CDKAL1	rs2749683	21635327	T,G	0.767	0.8784	0.015	0.066	0.053	0.8179
CDKAL1	rs1744874	21640902	T,C	0.7492	0.9047	0.015	0.064	0.0526	0.8186
CDKAL1	rs149455365	21553549	R,D	0.9357	0.9431	-0.024	0.107	0.0518	0.82
CDKAL1	rs146516474	21554348	C,T	0.9266	0.8769	-0.024	0.108	0.0505	0.8222
CDKAL1	rs67418443	21554442	C,T	0.9266	0.876	-0.024	0.108	0.0505	0.8222
CDKAL1	rs116239840	21722970	A,C	0.8218	0.9134	0.018	0.079	0.0504	0.8224
CDKAL1	rs9460664	21723621	G,A	0.8102	0.9858	0.017	0.074	0.0501	0.8229
CDKAL1	rs561593549	21641496	C,T	0.7285	0.8534	-0.014	0.061	0.0496	0.8237
CDKAL1	rs562290828	21641555	D,R	0.7285	0.8538	-0.014	0.061	0.0494	0.8241
CDKAL1	rs370328808	21641504	D,R	0.7285	0.8536	-0.014	0.061	0.0494	0.8242
CDKAL1	rs7770799	21553258	A,C	0.9337	0.9722	-0.023	0.105	0.0494	0.8242
CDKAL1	rs113411153	21641562	D,R	0.7285	0.8541	-0.013	0.061	0.0492	0.8245
CDKAL1	rs529643978	21641557	D,R	0.7285	0.854	-0.013	0.061	0.0492	0.8245
CDKAL1	rs73392011	21569756	C,T	0.9671	0.445	0.062	0.283	0.0485	0.8258
CDKAL1	rs7739666	21718260	T,C	0.9818	0.939	22.676	103.164	0.0483	0.826
CDKAL1	rs1744873	21638871	C,T	0.7506	0.8981	0.014	0.064	0.048	0.8265
CDKAL1	rs1744872	21638599	C,T	0.7505	0.8975	0.014	0.064	0.0478	0.8269
CDKAL1	rs1744871	21638566	C,T	0.7505	0.8974	0.014	0.064	0.0477	0.827
CDKAL1	rs5874829	21738740	R,I	0.8074	0.7675	-0.018	0.084	0.0474	0.8277
CDKAL1	rs111526226	21567385	T,C	0.968	0.4673	0.06	0.278	0.0468	0.8288
CDKAL1	rs1740842	21623181	G,A	0.6726	0.9885	-0.012	0.056	0.0467	0.8288
CDKAL1	rs36027263	21648358	I,R	0.7129	0.8819	0.014	0.064	0.0465	0.8292
CDKAL1	rs7756206	21635314	T,G	0.7423	0.8724	0.014	0.065	0.0459	0.8303
CDKAL1	rs1740840	21627378	G,A	0.7156	0.9808	0.012	0.056	0.0457	0.8306
CDKAL1	rs1744853	21623386	A,G	0.6725	0.9887	-0.012	0.056	0.0458	0.8306
CDKAL1	rs149699118	21633666	D,R	0.7515	0.8935	0.014	0.065	0.0452	0.8316
CDKAL1	rs1740868	21660205	G,T	0.6798	0.8487	-0.012	0.059	0.0451	0.8318
CDKAL1	rs7772163	21726011	G,C	0.8088	0.9857	0.015	0.074	0.0439	0.8341
CDKAL1	rs6926491	21724670	G,A	0.8091	0.9926	0.015	0.074	0.0437	0.8343
CDKAL1	rs9466165	21724322	T,C	0.8089	0.9953	0.015	0.074	0.0435	0.8348
CDKAL1	rs1744854	21623686	C,T	0.6725	0.9882	-0.012	0.056	0.0433	0.8351
CDKAL1	rs6925119	21701083	G,A	0.6412	0.822	-0.017	0.081	0.0433	0.8353
CDKAL1	rs6925679	21724480	A,G	0.8086	1	0.015	0.074	0.042	0.8375
CDKAL1	rs9460665	21724144	G,A	0.8084	1	0.015	0.074	0.042	0.8375
CDKAL1	rs71563992	21655825	G,T	0.9888	0.8713	-1.53	7.469	0.042	0.8377
CDKAL1	rs74785728	21611723	G,A	0.9819	0.9332	-14.463	72.691	0.0396	0.8423
CDKAL1	rs1744860	21627046	A,G	0.6998	0.9875	0.011	0.055	0.0391	0.8432
CDKAL1	rs66647983	21633079	R,D	0.5368	0.3749	0.017	0.088	0.0381	0.8453
CDKAL1	rs9466163	21723532	C,T	0.809	0.9768	0.014	0.074	0.0379	0.8457
CDKAL1	rs201453060	21648925	R,I	0.5221	0.4872	-0.017	0.087	0.0371	0.8472
CDKAL1	rs941990	21658881	A,G	0.6778	0.8561	-0.011	0.059	0.0363	0.849

CDKAL1	rs117061311	21683546	G,A	0.9853	0.4203	3.462	18.219	0.0361	0.8493
CDKAL1	rs111355896	21649454	I,R	0.7486	0.9074	0.012	0.064	0.0354	0.8507
CDKAL1	rs9466161	21722916	T,C	0.7866	0.8907	0.015	0.079	0.0352	0.8511
CDKAL1	rs1744880	21653046	A,G	0.6868	0.9845	-0.011	0.057	0.0349	0.8519
CDKAL1	rs9348480	21617782	G,A	0.7922	0.9408	-0.012	0.067	0.0346	0.8525
CDKAL1	rs11757166	21652990	C,T	0.6883	0.9879	-0.011	0.057	0.0341	0.8534
CDKAL1	rs1744879	21652741	A,G	0.6892	0.9997	-0.011	0.057	0.0341	0.8535
CDKAL1	rs1744857	21626067	T,C	0.6993	0.9886	0.01	0.055	0.0329	0.856
CDKAL1	rs2749688	21658487	G,C	0.6992	0.8356	-0.011	0.059	0.0319	0.8583
CDKAL1	rs1740841	21627053	G,T	0.6852	0.9798	0.01	0.055	0.0314	0.8593
CDKAL1	rs7746995	21686064	G,A	0.9859	0.4629	1.047	5.958	0.0309	0.8606
CDKAL1	rs9460655	21641564	C,T	0.6926	0.8571	-0.011	0.062	0.0301	0.8622
CDKAL1	rs1744882	21657561	T,G	0.7003	0.8473	-0.01	0.059	0.0299	0.8627
CDKAL1	rs78712702	21700242	T,A	0.9843	0.4664	-0.061	0.353	0.0296	0.8634
CDKAL1	rs1744862	21629881	C,A	0.6612	0.9531	-0.01	0.056	0.0291	0.8646
CDKAL1	rs1744863	21629887	A,G	0.6612	0.9532	-0.009	0.056	0.0288	0.8652
CDKAL1	rs1744859	21626395	T,C	0.685	0.9803	0.009	0.055	0.0286	0.8658
CDKAL1	rs34197291	21611277	R,D	0.7729	0.7368	-0.012	0.073	0.0281	0.8669
CDKAL1	rs1744858	21626190	T,C	0.6849	0.9807	0.009	0.055	0.0268	0.8699
CDKAL1	rs73374447	21636151	C,T	0.9753	0.3	0.059	0.364	0.0266	0.8705
CDKAL1	rs397888201	21681363	R,D	0.4982	0.7168	0.01	0.063	0.0261	0.8717
CDKAL1	rs12664833	21614978	T,G	0.8033	0.9552	-0.011	0.068	0.0246	0.8753
CDKAL1	rs4616978	21606129	G,A	0.8111	0.9353	-0.011	0.069	0.0245	0.8756
CDKAL1	rs4712624	21693152	A,G	0.843	0.7383	0.021	0.139	0.0236	0.8779
CDKAL1	rs9466168	21734750	C,T	0.8215	0.9954	-0.011	0.075	0.0229	0.8797
CDKAL1	rs9368325	21577508	C,T	0.8604	0.347	-0.02	0.137	0.0224	0.8809
CDKAL1	rs1744892	21680206	A,G	0.4953	0.9943	0.008	0.053	0.0214	0.8837
CDKAL1	rs35528538	21613493	R,D	0.8281	0.9642	0.01	0.068	0.0214	0.8837
CDKAL1	rs199690993	21646009	R,D	0.9762	0.3058	0.055	0.374	0.0212	0.8841
CDKAL1	rs6941630	21679102	C,T	0.5039	0.9783	0.008	0.053	0.0212	0.8841
CDKAL1	rs1744891	21679835	G,A	0.5058	0.9872	0.008	0.053	0.0212	0.8843
CDKAL1	rs1744895	21680899	G,C	0.4958	1	0.008	0.053	0.021	0.8847
CDKAL1	rs1744893	21680746	T,C	0.5019	0.987	0.008	0.053	0.0209	0.8851
CDKAL1	rs1740827	21650969	A,T	0.7378	0.9342	0.009	0.064	0.0207	0.8855
CDKAL1	rs62404141	21614140	G,A	0.8281	0.9622	0.01	0.068	0.0206	0.8858
CDKAL1	rs1740861	21678006	T,C	0.5038	0.9738	0.008	0.053	0.0203	0.8868
CDKAL1	rs1740855	21680782	C,T	0.5021	0.9879	0.008	0.053	0.0201	0.8873
CDKAL1	rs1744886	21671092	A,T	0.5151	0.9725	0.007	0.053	0.019	0.8903
CDKAL1	rs1744865	21631078	A,C	0.6628	0.9515	-0.008	0.056	0.0187	0.8911
CDKAL1	rs35001920	21676726	R,D	0.4775	0.9497	-0.007	0.054	0.0184	0.892
CDKAL1	rs72317305	21669872	R,D	0.5156	0.9662	0.007	0.053	0.0183	0.8923
CDKAL1	rs150766348	21706424	R,D	0.6681	0.8073	-0.011	0.085	0.0172	0.8957
CDKAL1	rs80309179	21644884	G,T	0.9894	0.4434	-0.202	1.548	0.017	0.8962
CDKAL1	rs35612989	21663201	R,I	0.4311	0.4511	-0.01	0.078	0.0166	0.8976
CDKAL1	rs7739607	21632345	G,C	0.6821	0.9067	-0.008	0.059	0.0166	0.8976

CDKAL1	rs1744894	21680886 T,C	0.4962	0.9953	0.007	0.053	0.0152	0.9019
CDKAL1	rs34987769	21678839 R,I	0.5043	0.9785	0.006	0.053	0.0147	0.9033
CDKAL1	rs1744896	21681103 A,G	0.5038	0.9407	0.006	0.055	0.0137	0.9067
CDKAL1	rs7739585	21632295 A,C	0.6764	0.9279	-0.007	0.057	0.0136	0.9073
CDKAL1	rs1740865	21668071 C,A	0.5314	0.8949	0.006	0.055	0.0133	0.9081
CDKAL1	rs1740856	21681223 G,A	0.5041	0.9379	0.006	0.055	0.0131	0.9087
CDKAL1	rs10946462	21651830 C,T	0.6894	0.9828	-0.006	0.058	0.0125	0.9109
CDKAL1	rs1740825	21653689 T,C	0.7477	0.8767	0.006	0.063	0.0105	0.9186
CDKAL1	rs201389513	21635326 D,R	0.7672	0.8696	0.007	0.065	0.0102	0.9194
CDKAL1	rs13211544	21619214 C,A	0.8478	0.3133	0.015	0.146	0.01	0.9202
CDKAL1	rs9466144	21676886 G,T	0.943	0.852	1.76	17.914	0.0097	0.9217
CDKAL1	rs13219202	21683982 G,A	0.5273	0.7259	0.006	0.064	0.008	0.9289
CDKAL1	rs9466155	21707222 G,A	0.6726	0.8766	-0.007	0.081	0.007	0.9335
CDKAL1	rs1740832	21646725 A,G	0.756	0.938	0.005	0.063	0.0069	0.9338
CDKAL1	rs79164129	21601917 T,C	0.9855	0.3283	0.031	0.378	0.0069	0.9339
CDKAL1	rs9460659	21696569 G,C	0.6689	0.7266	0.008	0.093	0.0069	0.934
CDKAL1	rs7763048	21681780 G,A	0.4974	0.8635	0.004	0.057	0.0061	0.9375
CDKAL1	rs2759362	21681885 G,A	0.5173	0.8653	0.004	0.057	0.0057	0.9396
CDKAL1	rs1740857	21681617 T,G	0.5067	0.8693	0.004	0.057	0.0056	0.9403
CDKAL1	rs79693897	21695822 R,D	0.6627	0.717	0.007	0.093	0.0054	0.9415
CDKAL1	rs1740858	21682180 C,T	0.507	0.8636	0.004	0.057	0.0052	0.9423
CDKAL1	rs1740859	21682298 C,T	0.5072	0.8627	0.004	0.057	0.0051	0.943
CDKAL1	rs200822534	21701029 R,D	0.6386	0.6957	0.007	0.093	0.005	0.9435
CDKAL1	rs1744877	21651554 T,C	0.6891	0.9768	-0.004	0.058	0.005	0.9437
CDKAL1	rs35829440	21655243 R,I	0.602	0.3134	0.007	0.098	0.0049	0.9439
CDKAL1	rs7754999	21705723 C,T	0.6691	0.8543	-0.006	0.082	0.0049	0.9443
CDKAL1	rs12200574	21683353 G,A	0.5092	0.842	0.004	0.058	0.0049	0.9445
CDKAL1	rs1740826	21651528 G,A	0.6892	0.9762	-0.004	0.058	0.0049	0.9445
CDKAL1	rs2180418	21690172 A,G	0.8397	0.9885	0.005	0.087	0.0038	0.9507
CDKAL1	rs7741780	21685460 A,G	0.8336	0.732	0.006	0.099	0.0035	0.953
CDKAL1	rs6456439	21645743 T,G	0.7125	0.9939	0.004	0.061	0.0034	0.9534
CDKAL1	rs60908846	21646239 I,R	0.758	0.8675	0.004	0.062	0.0033	0.9541
CDKAL1	rs74831068	21693978 T,C	0.8189	0.778	-0.007	0.13	0.0032	0.9547
CDKAL1	rs1744867	21634171 T,C	0.7381	0.8918	-0.003	0.065	0.0029	0.9571
CDKAL1	rs77518511	21690391 A,G	0.9839	0.4553	0.217	4.516	0.0023	0.9618
CDKAL1	rs57442902	21704602 C,T	0.6719	0.8494	-0.004	0.083	0.0023	0.9619
CDKAL1	rs2749682	21641716 A,G	0.6939	0.947	-0.003	0.063	0.0023	0.962
CDKAL1	rs534329540	21629251 R,I	0.4972	0.5784	0.003	0.072	0.0023	0.9621
CDKAL1	rs6933751	21704108 T,C	0.672	0.8471	-0.004	0.083	0.002	0.9643
CDKAL1	rs4712625	21699342 G,A	0.8761	0.9937	-0.004	0.083	0.0019	0.9654
CDKAL1	rs6904795	21703099 A,G	0.6649	0.8486	-0.004	0.083	0.0019	0.9654
CDKAL1	rs11380611	21703686 R,I	0.6704	0.84	-0.004	0.083	0.0019	0.9656
CDKAL1	rs2328624	21703736 G,C	0.672	0.8448	-0.003	0.083	0.0017	0.9669
CDKAL1	rs4712626	21701841 G,A	0.6545	0.8328	-0.003	0.084	0.0015	0.9687
CDKAL1	rs1744870	21638485 A,C	0.734	0.9006	-0.002	0.064	0.0013	0.9709

CDKAL1	rs9368326	21590104 A,G	0.8056	0.5535	0.003	0.089	0.0013	0.9711
CDKAL1	rs9295514	21636585 A,G	0.7107	0.9234	-0.002	0.064	0.0013	0.9717
CDKAL1	rs2328625	21703880 T,C	0.6717	0.8446	-0.003	0.083	0.0012	0.9722
CDKAL1	rs2328626	21703885 C,T	0.6717	0.8448	-0.003	0.083	0.0012	0.9725
CDKAL1	rs11751574	21702901 G,A	0.6716	0.8382	-0.003	0.084	0.0011	0.974
CDKAL1	rs2749681	21683792 A,G	0.5085	0.771	0.002	0.061	0.001	0.9745
CDKAL1	rs6927945	21703341 T,C	0.672	0.841	-0.003	0.083	0.001	0.9748
CDKAL1	rs2759360	21653532 A,G	0.7648	0.8809	0.002	0.065	0.0009	0.976
CDKAL1	rs62403971	21702621 T,C	0.6704	0.8339	-0.002	0.084	0.0009	0.9763
CDKAL1	rs1740866	21664729 T,G	0.7801	0.807	0.002	0.064	0.0009	0.9766
CDKAL1	rs1740831	21647589 G,A	0.7131	0.9772	0.002	0.062	0.0008	0.9771
CDKAL1	rs148261621	21712086 R,I	0.7162	0.7178	-0.003	0.09	0.0008	0.9775
CDKAL1	rs55686449	21702505 T,C	0.6687	0.8289	-0.002	0.084	0.0008	0.9776
CDKAL1	rs73376030	21700390 T,G	0.6688	0.8019	0.002	0.085	0.0008	0.978
CDKAL1	rs4327678	21619771 T,C	0.7132	0.9834	-0.002	0.056	0.0007	0.9785
CDKAL1	rs62403969	21702409 A,C	0.6716	0.8327	-0.002	0.084	0.0006	0.9798
CDKAL1	rs13215657	21683714 C,T	0.511	0.7765	0.001	0.06	0.0006	0.9802
CDKAL1	rs1744851	21619810 T,C	0.7153	0.9819	-0.001	0.056	0.0006	0.9804
CDKAL1	rs1740851	21616268 T,C	0.7152	0.9852	-0.001	0.057	0.0005	0.9829
CDKAL1	rs1744847	21695888 C,T	0.9409	0.4743	-0.004	0.197	0.0005	0.9831
CDKAL1	rs4712630	21702161 T,C	0.6716	0.8305	-0.002	0.084	0.0004	0.9839
CDKAL1	rs1740853	21684065 G,A	0.5152	0.7328	-0.001	0.062	0.0004	0.9843
CDKAL1	rs4712629	21702103 A,G	0.6716	0.83	-0.002	0.084	0.0004	0.9843
CDKAL1	rs13219086	21683929 G,C	0.5137	0.7654	0.001	0.061	0.0004	0.9844
CDKAL1	rs4712628	21702070 C,G	0.6704	0.828	-0.002	0.084	0.0004	0.9845
CDKAL1	rs4712627	21701892 C,T	0.6719	0.828	-0.001	0.084	0.0003	0.9862
CDKAL1	rs13362741	21700158 A,C	0.6707	0.8039	0.001	0.086	0.0003	0.9864
CDKAL1	rs1744849	21612949 A,G	0.7238	1	-0.001	0.058	0.0002	0.9879
CDKAL1	rs1744850	21618916 G,T	0.7128	0.9828	-0.001	0.057	0.0002	0.9879
CDKAL1	rs1740850	21618925 C,G	0.7147	0.9839	-0.001	0.057	0.0002	0.9886
CDKAL1	rs112153247	21701183 C,T	0.6716	0.8121	0.001	0.085	0.0002	0.9887
CDKAL1	rs561618338	21639342 R,I	0.9855	0.4795	0.042	3.337	0.0002	0.9899
CDKAL1	rs1740843	21623041 G,A	0.6876	0.9919	0.001	0.055	0.0001	0.9904
CDKAL1	rs7742225	21685474 G,A	0.827	0.7132	0.001	0.101	0.0001	0.9911
CDKAL1	rs59493338	21646242 T,A	0.701	0.8468	-0.001	0.064	0.0001	0.9918
CDKAL1	rs59730691	21701056 C,T	0.6717	0.8117	0.001	0.085	0.0001	0.9932
CDKAL1	rs1744884	21663449 G,A	0.7593	0.786	0	0.063	0.0001	0.9938
CDKAL1	rs7761575	21701475 C,T	0.672	0.8148	0.001	0.085	0.0001	0.9943
CDKAL1	rs1740867	21663105 C,T	0.7594	0.7883	0	0.063	0	0.9949
CDKAL1	rs62406886	21701119 T,C	0.6631	0.8167	0	0.085	0	0.9953
CDKAL1	rs62406887	21701319 C,T	0.6717	0.8135	0	0.085	0	0.9955
CDKAL1	rs7761844	21701456 G,A	0.6722	0.8149	0	0.085	0	0.9981
CDKAL1	rs7761595	21701550 A,G	0.6721	0.8165	0	0.085	0	0.9985
CDKAL1	rs7762010	21701594 G,A	0.6719	0.8177	0	0.085	0	0.9997
CDKAL1	rs7739235	21609345 A,T	0.9799	0.962	0	1E+15	0	1

CDKAL1	rs7740142	21609635	G,A	0.9809	0.955	0	1E+15	0	1
CDKAL1	rs9460649	21614884	G,A	0.9843	0.994	0	1E+15	0	1

SNP association with **SOX4** sorted by p-value

SOX4	rs7739131	21727148	C,T	0.7149	0.9794	0.808	0.311	6.7364	0.00945
SOX4	rs78584681	21743570	R,D	0.7497	0.6177	0.932	0.379	6.0368	0.01401
SOX4	rs145960980	21729330	D,R	0.4093	0.9758	-0.68	0.289	5.5456	0.01853
SOX4	rs9460669	21729251	A,G	0.4053	0.9459	-0.685	0.292	5.4967	0.01905
SOX4	rs7775506	21729962	C,T	0.4216	0.9976	-0.649	0.277	5.4863	0.01917
SOX4	rs2180419	21728317	A,G	0.4028	0.9843	-0.637	0.285	5.0049	0.02528
SOX4	rs1830667	21728089	G,T	0.4027	0.9868	-0.633	0.284	4.9629	0.0259
SOX4	rs1407655	21727902	G,A	0.4028	0.9882	-0.63	0.284	4.9262	0.02645
SOX4	rs7744078	21727822	G,C	0.4006	0.9944	-0.629	0.284	4.9087	0.02672
SOX4	rs7764209	21727755	A,T	0.4006	0.9953	-0.627	0.284	4.8963	0.02692
SOX4	rs7740084	21727531	A,G	0.4005	0.9983	-0.625	0.283	4.8695	0.02733
SOX4	rs10636012	21727515	I,R	0.4062	0.9929	-0.622	0.283	4.8435	0.02775
SOX4	rs11753001	21726506	T,C	0.9147	0.5112	1.556	0.715	4.7325	0.0296
SOX4	rs9460666	21726380	G,A	0.9296	0.3512	2.809	1.373	4.1831	0.04083
SOX4	rs7760462	21730877	G,C	0.4165	0.9846	-0.571	0.285	4.0301	0.04469
SOX4	rs9368332	21731094	G,A	0.4156	0.9974	-0.562	0.284	3.918	0.04777
SOX4	rs35578300	21741886	R,D	0.7077	0.8309	0.609	0.312	3.8106	0.05093
SOX4	rs80177376	21744978	C,T	0.9048	0.3545	0.859	0.441	3.8043	0.05112
SOX4	rs6925679	21724480	A,G	0.8086	1	0.692	0.359	3.7153	0.05392
SOX4	rs9460665	21724144	G,A	0.8084	1	0.692	0.359	3.7153	0.05392
SOX4	rs9466165	21724322	T,C	0.8089	0.9953	0.693	0.36	3.7068	0.05419
SOX4	rs6926491	21724670	G,A	0.8091	0.9926	0.693	0.36	3.7064	0.0542
SOX4	rs7772163	21726011	G,C	0.8088	0.9857	0.693	0.36	3.7057	0.05423
SOX4	rs9460671	21731289	G,C	0.41	0.9868	-0.547	0.284	3.7031	0.05431
SOX4	rs9460664	21723621	G,A	0.8102	0.9858	0.695	0.362	3.6967	0.05452
SOX4	rs9466163	21723532	C,T	0.809	0.9768	0.695	0.363	3.6702	0.05539
SOX4	rs79846403	21723244	C,T	0.8348	0.8403	0.774	0.406	3.6345	0.05659
SOX4	rs9460668	21727929	C,G	0.8216	0.9705	0.717	0.38	3.566	0.05898
SOX4	rs62403977	21725337	C,T	0.8232	0.9705	0.718	0.38	3.5653	0.059
SOX4	rs7772337	21726278	C,T	0.8256	0.9612	0.72	0.381	3.562	0.05912
SOX4	rs116239840	21722970	A,C	0.8218	0.9134	0.729	0.387	3.5419	0.05984
SOX4	rs9466164	21723538	A,G	0.8284	0.9494	0.723	0.387	3.5012	0.06133
SOX4	rs9466161	21722916	T,C	0.7866	0.8907	0.718	0.384	3.4972	0.06147
SOX4	rs147276150	21701200	A,G	0.9274	0.4176	1.552	0.84	3.4179	0.06449
SOX4	rs141007801	21722788	R,I	0.8394	0.8482	0.789	0.429	3.3796	0.06601
SOX4	rs6918842	21691009	C,T	0.5679	0.9924	-0.604	0.33	3.3604	0.06678
SOX4	rs66735249	21686666	D,R	0.551	0.8357	-0.644	0.352	3.3442	0.06744
SOX4	rs4712632	21732137	G,A	0.4138	0.9644	-0.519	0.284	3.3428	0.0675
SOX4	rs1475149	21688142	G,A	0.5662	0.9247	-0.617	0.34	3.2847	0.06993
SOX4	rs2181318	21691468	T,C	0.549	0.9168	-0.605	0.334	3.2816	0.07006
SOX4	rs9466159	21721313	A,G	0.8227	0.9323	0.726	0.401	3.2756	0.07032
SOX4	rs1555287	21686091	G,A	0.5629	0.8575	-0.632	0.349	3.2745	0.07037

SOX4	rs1973986	21687571	A,T	0.5557	0.8895	-0.621	0.344	3.2541	0.07125
SOX4	rs4710981	21732702	G,C	0.4166	0.9635	-0.509	0.283	3.236	0.07204
SOX4	rs73376077	21720504	C,T	0.7969	0.9025	0.714	0.402	3.1637	0.07529
SOX4	rs34810044	21718703	R,D	0.7721	0.9072	0.723	0.407	3.1591	0.07551
SOX4	rs11968460	21718604	G,A	0.8056	0.9024	0.716	0.407	3.0943	0.07857
SOX4	rs74926222	21568994	C,T	0.9816	0.3776	76.447	43.487	3.0904	0.07876
SOX4	rs35487983	21739331	R,D	0.6885	0.8315	0.548	0.312	3.0733	0.07959
SOX4	rs76714354	21572464	A,G	0.9805	0.3806	75.942	43.682	3.0224	0.08212
SOX4	rs9466158	21717309	T,C	0.7892	0.921	0.711	0.41	3.0038	0.08307
SOX4	rs56004640	21716262	A,G	0.8113	0.9096	0.711	0.413	2.9676	0.08495
SOX4	rs62406884	21696308	C,T	0.9205	0.414	1.433	0.847	2.8591	0.09086
SOX4	rs2144867	21689100	C,T	0.9874	0.3281	-3.332	1.981	2.8287	0.0926
SOX4	rs200822534	21701029	R,D	0.6386	0.6957	0.765	0.455	2.827	0.09269
SOX4	rs1853345	21742346	T,C	0.73	0.9808	0.47	0.284	2.7421	0.09774
SOX4	rs148261621	21712086	R,I	0.7162	0.7178	0.724	0.439	2.721	0.09903
SOX4	rs7772583	21726279	G,A	0.6306	0.9061	0.596	0.362	2.7169	0.09929
SOX4	rs57792403	21738640	R,D	0.4364	0.9838	-0.458	0.278	2.7123	0.09958
SOX4	rs6456441	21658313	A,T	0.9842	0.4898	-63.502	38.858	2.6707	0.1022
SOX4	rs840982	21740321	T,C	0.4378	0.9967	-0.453	0.277	2.6684	0.1024
SOX4	rs840981	21740238	G,A	0.4381	1	-0.452	0.277	2.6633	0.1027
SOX4	rs7773111	21696531	G,A	0.6146	0.751	0.7	0.43	2.6559	0.1032
SOX4	rs75159243	21656071	A,T	0.9838	0.4842	-41.901	25.741	2.6497	0.1036
SOX4	rs115061151	21659040	A,C	0.9843	0.4916	-69.563	42.876	2.6322	0.1047
SOX4	rs62406886	21701119	T,C	0.6631	0.8167	0.67	0.414	2.6231	0.1053
SOX4	rs4712626	21701841	G,A	0.6545	0.8328	0.659	0.407	2.6176	0.1057
SOX4	rs6904795	21703099	A,G	0.6649	0.8486	0.653	0.404	2.614	0.1059
SOX4	rs112153247	21701183	C,T	0.6716	0.8121	0.672	0.416	2.6098	0.1062
SOX4	rs7761575	21701475	C,T	0.672	0.8148	0.67	0.415	2.6074	0.1064
SOX4	rs73376030	21700390	T,G	0.6688	0.8019	0.669	0.415	2.6007	0.1068
SOX4	rs7761844	21701456	G,A	0.6722	0.8149	0.669	0.415	2.596	0.1071
SOX4	rs2328625	21703880	T,C	0.6717	0.8446	0.652	0.405	2.594	0.1073
SOX4	rs2328626	21703885	C,T	0.6717	0.8448	0.651	0.404	2.594	0.1073
SOX4	rs7761595	21701550	A,G	0.6721	0.8165	0.667	0.414	2.5937	0.1073
SOX4	rs7762010	21701594	G,A	0.6719	0.8177	0.667	0.414	2.5924	0.1074
SOX4	rs59730691	21701056	C,T	0.6717	0.8117	0.669	0.416	2.5886	0.1076
SOX4	rs62406887	21701319	C,T	0.6717	0.8135	0.668	0.415	2.589	0.1076
SOX4	rs4712627	21701892	C,T	0.6719	0.828	0.66	0.41	2.5868	0.1078
SOX4	rs6927945	21703341	T,C	0.672	0.841	0.652	0.406	2.5824	0.1081
SOX4	rs11751574	21702901	G,A	0.6716	0.8382	0.653	0.407	2.5778	0.1084
SOX4	rs4712628	21702070	C,G	0.6704	0.828	0.658	0.41	2.5771	0.1084
SOX4	rs4712629	21702103	A,G	0.6716	0.83	0.657	0.41	2.5741	0.1086
SOX4	rs4712630	21702161	T,C	0.6716	0.8305	0.657	0.409	2.5741	0.1086
SOX4	rs11380611	21703686	R,I	0.6704	0.84	0.65	0.405	2.5731	0.1087
SOX4	rs13362741	21700158	A,C	0.6707	0.8039	0.668	0.417	2.5731	0.1087
SOX4	rs62403971	21702621	T,C	0.6704	0.8339	0.654	0.408	2.5727	0.1087

SOX4	rs55686449	21702505 T,C	0.6687	0.8289	0.654	0.408	2.5719	0.1088
SOX4	rs62403969	21702409 A,C	0.6716	0.8327	0.655	0.409	2.5717	0.1088
SOX4	rs2328624	21703736 G,C	0.672	0.8448	0.649	0.405	2.5695	0.1089
SOX4	rs6933751	21704108 T,C	0.672	0.8471	0.647	0.404	2.5679	0.1091
SOX4	rs57442902	21704602 C,T	0.6719	0.8494	0.645	0.403	2.5626	0.1094
SOX4	rs60368679	21746134 C,T	0.9868	0.3206	-2.901	1.813	2.5595	0.1096
SOX4	rs75994264	21745903 C,T	0.9868	0.3369	-2.823	1.771	2.5421	0.1108
SOX4	rs7754999	21705723 C,T	0.6691	0.8543	0.634	0.398	2.54	0.111
SOX4	rs9466155	21707222 G,A	0.6726	0.8766	0.628	0.394	2.5377	0.1112
SOX4	rs6456442	21698279 T,C	0.5821	0.821	0.624	0.392	2.5292	0.1118
SOX4	rs7759495	21706044 G,A	0.6142	0.9046	0.557	0.351	2.5135	0.1129
SOX4	rs375807437	21686609 R,D	0.5634	0.7421	-0.574	0.363	2.5072	0.1133
SOX4	rs9460659	21696569 G,C	0.6689	0.7266	0.717	0.454	2.4855	0.1149
SOX4	rs150766348	21706424 R,D	0.6681	0.8073	0.651	0.413	2.4809	0.1152
SOX4	rs6925119	21701083 G,A	0.6412	0.822	0.618	0.394	2.4603	0.1168
SOX4	rs4712623	21688978 C,T	0.638	0.848	0.537	0.342	2.4552	0.1171
SOX4	rs150345835	21568080 R,D	0.983	0.3784	65.572	41.891	2.4501	0.1175
SOX4	rs79693897	21695822 R,D	0.6627	0.717	0.711	0.455	2.4429	0.1181
SOX4	rs4712631	21710896 C,T	0.586	0.9993	0.504	0.325	2.3986	0.1214
SOX4	rs9466156	21711491 C,T	0.5874	0.9998	0.504	0.325	2.3986	0.1214
SOX4	rs9466154	21706155 G,T	0.6423	0.8816	0.565	0.369	2.3399	0.1261
SOX4	rs62403974	21713978 T,C	0.7736	0.9053	0.563	0.369	2.3179	0.1279
SOX4	rs111232506	21744922 C,T	0.9798	0.3015	-2.594	1.727	2.2546	0.1332
SOX4	rs59759742	21707319 T,G	0.6009	0.9285	0.538	0.358	2.2544	0.1332
SOX4	rs369470901	21707320 R,I	0.6014	0.9269	0.537	0.359	2.243	0.1342
SOX4	rs73378032	21744446 C,A	0.9796	0.3201	-2.503	1.676	2.2322	0.1352
SOX4	rs9460660	21709294 T,C	0.616	0.9365	0.525	0.352	2.2235	0.1359
SOX4	rs112524196	21743604 G,A	0.9794	0.3214	-2.471	1.666	2.2002	0.138
SOX4	rs6924745	21693837 C,T	0.8421	0.8514	0.687	0.471	2.133	0.1442
SOX4	rs840985	21744508 G,A	0.5605	0.3093	-0.707	0.488	2.1035	0.147
SOX4	rs1322883	21720796 A,G	0.5867	0.9164	0.523	0.365	2.0567	0.1515
SOX4	rs73737565	21664442 T,G	0.9768	0.5564	-91.084	63.967	2.0276	0.1545
SOX4	rs73737558	21577723 A,G	0.9837	0.4293	56.067	39.821	1.9824	0.1591
SOX4	rs1989470	21715067 T,A	0.5732	0.9562	0.467	0.332	1.9821	0.1592
SOX4	rs1744887	21674378 G,T	0.9679	0.3275	3.001	2.179	1.8961	0.1685
SOX4	rs570404489	21689796 R,D	0.7798	0.3015	1.177	0.875	1.8081	0.1787
SOX4	rs527350470	21640569 R,D	0.9745	0.7043	-25.699	19.198	1.7919	0.1807
SOX4	rs144222210	21726206 C,T	0.987	0.7975	4.698	3.532	1.7692	0.1835
SOX4	rs111357910	21723888 A,G	0.988	0.8511	4.608	3.476	1.7575	0.1849
SOX4	rs149555362	21726144 T,C	0.9879	0.8456	4.682	3.531	1.758	0.1849
SOX4	rs115731554	21723090 C,T	0.9877	0.8291	4.578	3.467	1.7437	0.1867
SOX4	rs78529444	21722481 A,G	0.9876	0.8222	4.578	3.467	1.7437	0.1867
SOX4	rs9350367	21555608 C,T	0.6563	0.3839	0.599	0.455	1.7356	0.1877
SOX4	rs75062640	21722533 A,G	0.9823	0.8162	4.55	3.457	1.7326	0.1881
SOX4	rs9466168	21734750 C,T	0.8215	0.9954	0.469	0.364	1.6616	0.1974

SOX4	rs73392015	21591766	C,T	0.9671	0.4088	8.16	6.392	1.6296	0.2018
SOX4	rs80349490	21615188	T,C	0.9491	0.4807	1.283	1.014	1.6	0.2059
SOX4	rs72175369	21738076	R,D	0.9214	0.781	0.481	0.391	1.5146	0.2184
SOX4	rs16885205	21743291	T,C	0.8644	0.5834	0.742	0.619	1.4371	0.2306
SOX4	rs5874829	21738740	R,I	0.8074	0.7675	0.489	0.409	1.4292	0.2319
SOX4	rs4712620	21554898	A,C	0.6509	0.3847	0.522	0.437	1.4257	0.2325
SOX4	rs1972212	21743761	C,T	0.8703	0.5142	0.785	0.659	1.4178	0.2338
SOX4	rs201513044	21589010	R,D	0.9897	0.4337	8.717	7.406	1.3856	0.2392
SOX4	rs79847215	21560355	C,A	0.9848	0.3334	2.294	1.956	1.3757	0.2408
SOX4	rs138380902	21731187	R,D	0.9079	0.9299	0.437	0.372	1.3745	0.241
SOX4	rs10080820	21655815	C,G	0.983	0.7561	-27.831	23.896	1.3564	0.2442
SOX4	rs9466169	21746181	A,G	0.8659	0.4166	0.849	0.735	1.3363	0.2477
SOX4	rs201995762	21706002	R,I	0.9873	0.4393	24.143	20.916	1.3324	0.2484
SOX4	rs35210528	21667781	T,C	0.9732	0.7254	-100.89	87.552	1.328	0.2492
SOX4	rs111526226	21567385	T,C	0.968	0.4673	1.556	1.352	1.3245	0.2498
SOX4	rs150435139	21707497	A,G	0.9874	0.4469	23.661	20.579	1.3219	0.2503
SOX4	rs7738599	21631790	A,G	0.9365	0.4203	-1.306	1.136	1.3203	0.2505
SOX4	rs12189901	21726940	G,A	0.9308	0.9638	0.437	0.382	1.3117	0.2521
SOX4	rs12191413	21740465	A,T	0.7737	0.8456	0.363	0.317	1.3074	0.2529
SOX4	rs73392011	21569756	C,T	0.9671	0.445	1.575	1.377	1.3073	0.2529
SOX4	rs78714768	21631590	C,T	0.9845	0.8158	-150.76	131.937	1.3058	0.2532
SOX4	rs9348484	21731460	C,G	0.93	0.9619	0.433	0.38	1.2966	0.2548
SOX4	rs9358448	21731736	G,A	0.9305	0.9625	0.433	0.38	1.2962	0.2549
SOX4	rs73374447	21636151	C,T	0.9753	0.3	2.018	1.774	1.2943	0.2553
SOX4	rs13211544	21619214	C,A	0.8478	0.3133	-0.808	0.71	1.2926	0.2556
SOX4	rs145648458	21636404	T,C	0.9762	0.7475	-25.949	22.958	1.2776	0.2583
SOX4	rs74785728	21611723	G,A	0.9819	0.9332	399.794	354.041	1.2752	0.2588
SOX4	rs7451817	21735497	A,C	0.9341	0.9124	0.43	0.381	1.2714	0.2595
SOX4	rs112039884	21729100	C,T	0.9274	0.9676	0.423	0.378	1.2514	0.2633
SOX4	rs75327712	21728829	G,A	0.9295	0.9778	0.423	0.378	1.2514	0.2633
SOX4	rs9358449	21732383	G,A	0.937	0.9915	0.423	0.378	1.2491	0.2637
SOX4	rs10946466	21727456	C,A	0.9298	0.9928	0.422	0.378	1.2451	0.2645
SOX4	rs12206842	21734489	A,T	0.9372	1	0.422	0.378	1.2451	0.2645
SOX4	rs199690993	21646009	R,D	0.9762	0.3058	2.029	1.821	1.2406	0.2654
SOX4	rs13220312	21671856	A,G	0.9734	0.7398	167.945	153.592	1.1956	0.2742
SOX4	rs1744876	21651003	T,C	0.8157	0.9901	0.354	0.326	1.1807	0.2772
SOX4	rs9466140	21673293	A,G	0.9286	0.9271	134.079	123.446	1.1797	0.2774
SOX4	rs12333123	21640660	G,A	0.9848	0.7705	-32.153	29.791	1.1648	0.2805
SOX4	rs147273446	21638982	C,G	0.9761	0.7533	-21.636	20.05	1.1645	0.2805
SOX4	rs148317817	21638986	G,A	0.9761	0.7532	-21.636	20.05	1.1645	0.2805
SOX4	rs145545902	21735584	D,R	0.6454	0.9341	0.385	0.358	1.1556	0.2824
SOX4	rs10155732	21639540	C,T	0.9761	0.7536	-20.809	19.397	1.1509	0.2834
SOX4	rs79949484	21728966	G,A	0.9319	0.8819	0.448	0.419	1.142	0.2852
SOX4	rs1744878	21652230	A,C	0.8076	0.9338	0.344	0.326	1.1112	0.2918
SOX4	rs115395409	21696639	C,T	0.99	0.5674	7.092	6.73	1.1103	0.292

SOX4	rs6456438	21632215	G,A	0.7029	0.9547	0.287	0.273	1.1096	0.2922
SOX4	rs11961107	21642740	G,A	0.9758	0.7454	-15.595	14.838	1.1046	0.2933
SOX4	rs548416728	21647978	R,D	0.9747	0.6618	-11.138	10.598	1.1045	0.2933
SOX4	rs71563994	21668435	T,C	0.9731	0.7255	-104.6	99.662	1.1015	0.2939
SOX4	rs11966675	21640125	G,A	0.9761	0.7522	-19.538	18.665	1.0957	0.2952
SOX4	rs10155733	21639594	C,T	0.9761	0.7534	-20.23	19.375	1.0902	0.2964
SOX4	rs12332790	21642505	C,T	0.9758	0.7456	-15.536	14.969	1.0772	0.2993
SOX4	rs150184400	21642793	T,C	0.9758	0.7454	-15.228	14.721	1.0701	0.3009
SOX4	rs12333154	21640855	G,A	0.976	0.751	-18.404	17.908	1.0562	0.3041
SOX4	rs1744864	21630684	C,T	0.7008	1	0.271	0.265	1.0485	0.3059
SOX4	rs9466133	21643948	C,T	0.9757	0.7442	-14.223	13.893	1.048	0.306
SOX4	rs1740839	21629928	G,A	0.7114	0.9827	0.273	0.268	1.0418	0.3074
SOX4	rs9460656	21643907	A,G	0.9758	0.7442	-14.168	14.01	1.0227	0.3119
SOX4	rs114977922	21638119	C,G	0.9762	0.7437	-21.607	21.431	1.0165	0.3134
SOX4	rs9295515	21641667	C,T	0.976	0.7495	-17.213	17.09	1.0145	0.3138
SOX4	rs11330136	21629471	D,R	0.7	0.9778	0.27	0.268	1.01	0.3149
SOX4	rs139032454	21644326	A,C	0.9757	0.7441	-13.729	13.717	1.0018	0.3169
SOX4	rs117061311	21683546	G,A	0.9853	0.4203	88.567	88.735	0.9962	0.3182
SOX4	rs138882930	21638300	A,G	0.9761	0.7432	-20.944	21.187	0.9772	0.3229
SOX4	rs35922627	21667988	A,T	0.973	0.7238	-94.377	95.478	0.9771	0.3229
SOX4	rs145825998	21695945	T,G	0.9899	0.5601	6.716	6.81	0.9728	0.324
SOX4	rs12183824	21726382	G,A	0.8184	0.3562	0.948	0.967	0.9611	0.3269
SOX4	rs10080752	21655608	C,G	0.9819	0.7225	-18.784	19.186	0.9585	0.3276
SOX4	rs201884896	21657694	D,R	0.9455	0.3238	0.888	0.921	0.93	0.3349
SOX4	rs1740830	21648615	C,T	0.867	0.7367	0.508	0.53	0.9213	0.3371
SOX4	rs547687648	21729656	R,I	0.7892	0.8727	0.322	0.336	0.9183	0.3379
SOX4	rs1744860	21627046	A,G	0.6998	0.9875	0.256	0.268	0.9127	0.3394
SOX4	rs1740840	21627378	G,A	0.7156	0.9808	0.256	0.271	0.8979	0.3434
SOX4	rs143636013	21649787	G,C	0.9413	0.7828	-1.058	1.118	0.895	0.3441
SOX4	rs7739585	21632295	A,C	0.6764	0.9279	0.264	0.279	0.894	0.3444
SOX4	rs1744857	21626067	T,C	0.6993	0.9886	0.253	0.268	0.8913	0.3451
SOX4	rs1740841	21627053	G,T	0.6852	0.9798	0.253	0.269	0.8902	0.3454
SOX4	rs1744859	21626395	T,C	0.685	0.9803	0.252	0.269	0.8802	0.3482
SOX4	rs1744858	21626190	T,C	0.6849	0.9807	0.251	0.269	0.8742	0.3498
SOX4	rs117804382	21656810	C,T	0.9855	0.5625	-35.562	38.09	0.8717	0.3505
SOX4	rs9368326	21590104	A,G	0.8056	0.5535	0.405	0.436	0.865	0.3523
SOX4	rs150235785	21638293	G,A	0.9849	0.7598	-32.883	35.361	0.8647	0.3524
SOX4	rs78471563	21679073	T,A	0.9895	0.9404	-541.87	585.054	0.8578	0.3544
SOX4	rs1744865	21631078	A,C	0.6628	0.9515	0.252	0.274	0.8509	0.3563
SOX4	rs9350368	21562144	A,G	0.6823	0.3726	0.452	0.493	0.8412	0.3591
SOX4	rs7739607	21632345	G,C	0.6821	0.9067	0.262	0.286	0.84	0.3594
SOX4	rs9348483	21687390	G,T	0.7953	0.87	0.332	0.363	0.8373	0.3602
SOX4	rs2180418	21690172	A,G	0.8397	0.9885	0.387	0.424	0.8318	0.3618
SOX4	rs9358450	21740882	A,G	0.746	0.858	0.266	0.293	0.8264	0.3633
SOX4	rs1744863	21629887	A,G	0.6612	0.9532	0.246	0.272	0.8202	0.3651

SOX4	rs1744862	21629881	C,A	0.6612	0.9531	0.246	0.272	0.8195	0.3653
SOX4	rs80230506	21655914	C,A	0.9607	0.7829	-1.263	1.406	0.8075	0.3689
SOX4	rs116104882	21654116	G,C	0.9607	0.7845	-1.239	1.385	0.8001	0.3711
SOX4	rs534329540	21629251	R,I	0.4972	0.5784	-0.308	0.349	0.7804	0.377
SOX4	rs150997476	21663402	A,T	0.9893	0.6383	-1.159	1.338	0.7501	0.3865
SOX4	rs141673420	21695454	T,C	0.9835	0.3745	-2.651	3.069	0.7463	0.3876
SOX4	rs9366408	21742607	G,A	0.9822	0.9856	192.374	222.975	0.7444	0.3883
SOX4	rs7742225	21685474	G,A	0.827	0.7132	0.424	0.493	0.7416	0.3891
SOX4	rs75122426	21580566	T,C	0.985	0.6235	-225.09	269.81	0.696	0.4041
SOX4	rs1740843	21623041	G,A	0.6876	0.9919	0.223	0.268	0.6918	0.4055
SOX4	rs7741780	21685460	A,G	0.8336	0.732	0.4	0.483	0.6865	0.4073
SOX4	rs62404141	21614140	G,A	0.8281	0.9622	0.274	0.331	0.6853	0.4078
SOX4	rs35528538	21613493	R,D	0.8281	0.9642	0.273	0.331	0.6788	0.41
SOX4	rs113975012	21712110	A,T	0.9843	0.5172	6.707	8.348	0.6455	0.4217
SOX4	rs9358441	21565339	T,C	0.7025	0.3571	0.409	0.512	0.6366	0.425
SOX4	rs1744881	21657548	G,A	0.8047	0.8556	0.256	0.321	0.6361	0.4251
SOX4	rs9466136	21653258	C,T	0.905	0.8569	-0.443	0.556	0.6354	0.4254
SOX4	rs78345714	21734098	T,C	0.9849	0.6839	-0.9	1.135	0.6292	0.4277
SOX4	rs185847252	21676018	G,A	0.9496	0.8487	-143.4	181.889	0.6216	0.4305
SOX4	rs7770799	21553258	A,C	0.9337	0.9722	0.399	0.509	0.6129	0.4337
SOX4	rs116598598	21654884	A,T	0.983	0.5411	-18.524	23.695	0.6111	0.4344
SOX4	rs67418443	21554442	C,T	0.9266	0.876	0.408	0.526	0.6012	0.4381
SOX4	rs146516474	21554348	C,T	0.9266	0.8769	0.408	0.526	0.6009	0.4382
SOX4	rs149455365	21553549	R,D	0.9357	0.9431	0.405	0.523	0.5984	0.4392
SOX4	rs7739186	21657833	T,C	0.9158	0.8085	-0.485	0.638	0.5772	0.4474
SOX4	rs530398575	21733586	R,I	0.8629	0.4934	0.376	0.495	0.5771	0.4475
SOX4	rs4616978	21606129	G,A	0.8111	0.9353	0.25	0.335	0.5557	0.456
SOX4	rs1740827	21650969	A,T	0.7378	0.9342	0.231	0.31	0.553	0.4571
SOX4	rs143796183	21587351	G,A	0.9851	0.3168	3.785	5.109	0.5489	0.4588
SOX4	rs9460657	21660051	C,T	0.8938	0.8161	-0.469	0.638	0.5409	0.462
SOX4	rs116300170	21663541	G,A	0.9641	0.8099	-1.137	1.553	0.536	0.4641
SOX4	rs1744851	21619810	T,C	0.7153	0.9819	0.2	0.275	0.5299	0.4666
SOX4	rs11327351	21623643	D,R	0.6711	0.9267	0.205	0.282	0.5292	0.4669
SOX4	rs4327678	21619771	T,C	0.7132	0.9834	0.199	0.274	0.5262	0.4682
SOX4	rs34954830	21632488	R,I	0.9584	0.5469	-12.843	17.718	0.5254	0.4686
SOX4	rs562901644	21554922	R,D	0.9157	0.7168	0.383	0.533	0.5171	0.4721
SOX4	rs1740850	21618925	C,G	0.7147	0.9839	0.197	0.276	0.5068	0.4765
SOX4	rs1744850	21618916	G,T	0.7128	0.9828	0.196	0.276	0.5053	0.4772
SOX4	rs57690989	21652353	T,G	0.9629	0.903	-0.66	0.934	0.5001	0.4795
SOX4	rs1740828	21649085	A,G	0.5436	0.4642	0.312	0.442	0.4998	0.4796
SOX4	rs6912946	21659978	A,T	0.8051	0.821	0.224	0.317	0.4985	0.4802
SOX4	rs78870816	21665363	C,T	0.9434	0.7804	-1.043	1.48	0.4969	0.4809
SOX4	rs146017644	21640727	C,T	0.9833	0.5529	-10.372	14.722	0.4964	0.4811
SOX4	rs574039752	21629819	R,D	0.3639	0.9279	-0.186	0.265	0.4952	0.4816
SOX4	rs111928481	21648542	T,A	0.9738	0.8848	-0.784	1.115	0.4945	0.4819

SOX4	rs1744854	21623686	C,T	0.6725	0.9882	0.191	0.271	0.4942	0.4821
SOX4	rs80264536	21666345	T,G	0.9437	0.7836	-1.037	1.479	0.4911	0.4834
SOX4	rs1744853	21623386	A,G	0.6725	0.9887	0.19	0.271	0.4892	0.4843
SOX4	rs1740842	21623181	G,A	0.6726	0.9885	0.189	0.271	0.4867	0.4854
SOX4	rs76062205	21666427	C,T	0.9438	0.7852	-1.033	1.481	0.4861	0.4857
SOX4	rs1744847	21695888	C,T	0.9409	0.4743	-0.664	0.959	0.4799	0.4885
SOX4	rs7751397	21662535	C,T	0.9285	0.8402	-0.443	0.644	0.4747	0.4908
SOX4	rs4710983	21734202	C,T	0.767	0.9462	0.192	0.279	0.4746	0.4909
SOX4	rs2759360	21653532	A,G	0.7648	0.8809	0.217	0.317	0.4693	0.4933
SOX4	rs7771671	21662524	T,G	0.9284	0.8382	-0.44	0.643	0.468	0.4939
SOX4	rs1740844	21622871	C,T	0.6724	0.9911	0.185	0.271	0.4675	0.4941
SOX4	rs61661762	21588463	A,G	0.9883	0.3149	-1.037	1.519	0.4662	0.4947
SOX4	rs1555529	21691704	A,G	0.7822	0.9942	0.241	0.355	0.4617	0.4968
SOX4	rs6939472	21661019	G,C	0.7866	0.7792	0.214	0.315	0.4598	0.4977
SOX4	rs6941630	21679102	C,T	0.5039	0.9783	0.175	0.258	0.4597	0.4978
SOX4	rs1744891	21679835	G,A	0.5058	0.9872	0.175	0.258	0.459	0.4981
SOX4	rs1744892	21680206	A,G	0.4953	0.9943	0.175	0.258	0.4588	0.4982
SOX4	rs1744895	21680899	G,C	0.4958	1	0.175	0.258	0.4586	0.4983
SOX4	rs6456440	21658236	C,A	0.9344	0.7776	-0.726	1.072	0.4582	0.4985
SOX4	rs111355896	21649454	I,R	0.7486	0.9074	0.209	0.31	0.4558	0.4996
SOX4	rs1740865	21668071	C,A	0.5314	0.8949	0.182	0.269	0.4558	0.4996
SOX4	rs1740861	21678006	T,C	0.5038	0.9738	0.175	0.259	0.4553	0.4998
SOX4	rs1744886	21671092	A,T	0.5151	0.9725	0.174	0.259	0.4531	0.5009
SOX4	rs77518511	21690391	A,G	0.9839	0.4553	14.767	21.995	0.4507	0.502
SOX4	rs2328627	21714362	G,A	0.9889	0.782	292.951	438.659	0.446	0.5042
SOX4	rs116697959	21668594	A,T	0.9652	0.8312	-1.043	1.563	0.4455	0.5045
SOX4	rs113989215	21665766	A,C	0.9131	0.855	-0.38	0.57	0.4442	0.5051
SOX4	rs77155105	21682861	C,G	0.9671	0.7117	-1.245	1.868	0.4441	0.5052
SOX4	rs1744894	21680886	T,C	0.4962	0.9953	0.173	0.259	0.4437	0.5053
SOX4	rs72317305	21669872	R,D	0.5156	0.9662	0.173	0.26	0.4434	0.5055
SOX4	rs1744861	21627986	A,T	0.3793	0.9676	-0.174	0.262	0.4424	0.5059
SOX4	rs34987769	21678839	R,I	0.5043	0.9785	0.173	0.26	0.4416	0.5063
SOX4	rs9348480	21617782	G,A	0.7922	0.9408	0.217	0.327	0.4404	0.5069
SOX4	rs1744893	21680746	T,C	0.5019	0.987	0.172	0.26	0.4398	0.5072
SOX4	rs1740855	21680782	C,T	0.5021	0.9879	0.171	0.26	0.4351	0.5095
SOX4	rs1740825	21653689	T,C	0.7477	0.8767	0.203	0.308	0.4328	0.5106
SOX4	rs9460651	21622531	G,T	0.672	0.9951	0.178	0.27	0.4326	0.5107
SOX4	rs9368325	21577508	C,T	0.8604	0.347	0.437	0.665	0.4321	0.511
SOX4	rs145907846	21729085	G,A	0.9868	0.8724	66.156	100.721	0.4314	0.5113
SOX4	rs78098947	21713740	C,T	0.989	0.7788	221.684	339.417	0.4266	0.5137
SOX4	rs140643662	21664544	G,A	0.9855	0.5752	-71.307	109.223	0.4262	0.5138
SOX4	rs7751661	21621850	G,A	0.6705	1	0.176	0.27	0.4257	0.5141
SOX4	rs111442391	21730723	C,T	0.9726	0.3086	-0.843	1.294	0.4249	0.5145
SOX4	rs76501983	21631411	G,A	0.9854	0.8228	-0.721	1.114	0.4187	0.5176
SOX4	rs76934110	21669629	G,A	0.9626	0.7982	-1.008	1.562	0.4168	0.5186

SOX4	rs557872691	21603474	R,D	0.8825	0.5572	-0.538	0.836	0.414	0.52
SOX4	rs71563995	21676342	A,G	0.9697	0.7188	135.299	210.419	0.4134	0.5202
SOX4	rs12664833	21614978	T,G	0.8033	0.9552	0.211	0.329	0.4119	0.521
SOX4	rs1744896	21681103	A,G	0.5038	0.9407	0.171	0.266	0.4098	0.5221
SOX4	rs4712625	21699342	G,A	0.8761	0.9937	-0.257	0.402	0.4098	0.5221
SOX4	rs1740851	21616268	T,C	0.7152	0.9852	0.179	0.279	0.4096	0.5222
SOX4	rs1740856	21681223	G,A	0.5041	0.9379	0.171	0.267	0.4093	0.5223
SOX4	rs138585583	21678890	R,D	0.8749	0.9014	-0.365	0.57	0.4085	0.5227
SOX4	rs74492370	21679606	G,A	0.9678	0.8228	-0.997	1.563	0.407	0.5235
SOX4	rs78971333	21679601	C,T	0.9678	0.8229	-0.997	1.563	0.407	0.5235
SOX4	rs73737568	21667546	A,G	0.9719	0.8789	-0.7	1.098	0.4064	0.5238
SOX4	rs190176895	21629550	C,A	0.9877	0.7487	-0.74	1.161	0.4063	0.5239
SOX4	rs6934807	21653677	A,G	0.9709	0.9814	-0.705	1.108	0.4048	0.5246
SOX4	rs75509154	21670162	A,G	0.9656	0.8408	-0.995	1.563	0.4048	0.5246
SOX4	rs112538002	21611751	T,C	0.9848	0.97	-0.704	1.108	0.4039	0.5251
SOX4	rs117971178	21674146	C,T	0.9852	0.5427	-703.95	1107.93	0.4037	0.5252
SOX4	rs145952396	21677173	C,T	0.9854	0.5637	-175.99	276.983	0.4037	0.5252
SOX4	rs147045541	21675767	C,T	0.9834	0.576	-703.95	1107.93	0.4037	0.5252
SOX4	rs9295516	21673560	C,T	0.9483	0.8605	-234.65	369.311	0.4037	0.5252
SOX4	rs9466126	21601762	A,C	0.9836	0.9467	-703.95	1107.93	0.4037	0.5252
SOX4	rs9466127	21602745	G,A	0.9739	0.9906	-703.95	1107.93	0.4037	0.5252
SOX4	rs73374488	21666188	G,A	0.9707	0.8902	-0.698	1.098	0.4036	0.5253
SOX4	rs111228858	21612309	G,A	0.9872	0.8945	-0.734	1.155	0.4032	0.5254
SOX4	rs58572340	21555505	T,A	0.8729	0.5846	0.329	0.517	0.4032	0.5254
SOX4	rs78923341	21612472	A,C	0.9872	0.895	-0.734	1.155	0.4032	0.5254
SOX4	rs75157802	21678178	A,G	0.9675	0.834	-0.968	1.525	0.4031	0.5255
SOX4	rs111411936	21626246	G,A	0.9877	0.7672	-0.736	1.159	0.403	0.5256
SOX4	rs113842280	21611571	T,G	0.9848	0.967	-0.704	1.108	0.403	0.5256
SOX4	rs112650104	21611568	C,G	0.9871	0.889	-0.734	1.157	0.4023	0.5259
SOX4	rs6933506	21673857	T,C	0.9717	0.871	-0.689	1.086	0.4021	0.526
SOX4	rs142641808	21677158	C,T	0.9656	0.7625	-0.962	1.518	0.4013	0.5264
SOX4	rs6941897	21671979	C,A	0.9897	0.6097	-0.776	1.226	0.4011	0.5265
SOX4	rs7762989	21624153	C,T	0.9883	0.8214	-0.734	1.159	0.401	0.5266
SOX4	rs12374633	21654974	G,A	0.9698	0.9337	-0.703	1.11	0.4006	0.5268
SOX4	rs59187080	21668625	G,A	0.966	0.7875	-0.581	0.917	0.4006	0.5268
SOX4	rs112102336	21677692	G,T	0.9639	0.7866	-0.954	1.509	0.4002	0.527
SOX4	rs147488932	21672276	G,A	0.9657	0.8442	-0.985	1.563	0.3971	0.5286
SOX4	rs79169915	21607457	G,A	0.9882	0.848	-0.733	1.164	0.3967	0.5288
SOX4	rs111412021	21606278	T,C	0.9882	0.8163	-0.729	1.159	0.3958	0.5292
SOX4	rs34197291	21611277	R,D	0.7729	0.7368	0.224	0.356	0.3952	0.5296
SOX4	rs71657670	21613526	R,D	0.9864	0.77	-0.727	1.157	0.3944	0.53
SOX4	rs7754895	21696533	T,C	0.9459	0.5325	1.154	1.84	0.3933	0.5306
SOX4	rs543173991	21629474	T,A	0.9884	0.7664	-0.8	1.277	0.3929	0.5308
SOX4	rs77222012	21614945	G,A	0.9849	0.9755	-0.693	1.108	0.3911	0.5317
SOX4	rs10557323	21615430	R,D	0.9849	0.974	-0.693	1.108	0.391	0.5318

SOX4	rs7763048	21681780	G,A	0.4974	0.8635	0.173	0.277	0.3909	0.5318
SOX4	rs112553613	21616239	A,G	0.9848	0.9676	-0.692	1.108	0.3897	0.5325
SOX4	rs7772692	21696544	A,G	0.9472	0.5318	1.156	1.853	0.3892	0.5327
SOX4	rs6935968	21613156	G,A	0.9849	0.9776	-0.691	1.108	0.3889	0.5329
SOX4	rs75127321	21613946	G,A	0.9849	0.9767	-0.691	1.108	0.3889	0.5329
SOX4	rs111887738	21616944	T,C	0.9828	0.9369	-0.689	1.109	0.3862	0.5343
SOX4	rs113455272	21616778	T,C	0.9824	0.9392	-0.689	1.109	0.3859	0.5344
SOX4	rs2251647	21677746	C,A	0.9512	0.9786	-0.335	0.54	0.3859	0.5345
SOX4	rs116187696	21639646	G,A	0.9868	0.5351	-10.798	17.443	0.3832	0.5359
SOX4	rs1740845	21621731	G,A	0.6871	0.9929	0.168	0.274	0.3771	0.5392
SOX4	rs149019701	21621670	D,R	0.6874	0.9939	0.168	0.274	0.3767	0.5394
SOX4	rs1744852	21621724	A,G	0.6871	0.9927	0.168	0.274	0.3757	0.5399
SOX4	rs542285387	21621459	I,R	0.6862	0.9884	0.168	0.275	0.3721	0.5419
SOX4	rs183503583	21638847	G,A	0.9885	0.5492	-11.972	19.687	0.3698	0.5431
SOX4	rs147268567	21621169	D,R	0.6874	0.993	0.167	0.275	0.368	0.5441
SOX4	rs546083928	21596246	R,I	0.9877	0.6818	-0.702	1.158	0.3674	0.5444
SOX4	rs1740857	21681617	T,G	0.5067	0.8693	0.168	0.278	0.3673	0.5445
SOX4	rs2759362	21681885	G,A	0.5173	0.8653	0.169	0.279	0.3659	0.5452
SOX4	rs79164129	21601917	T,C	0.9855	0.3283	1.11	1.84	0.3637	0.5465
SOX4	rs1740858	21682180	C,T	0.507	0.8636	0.168	0.279	0.3633	0.5467
SOX4	rs1740859	21682298	C,T	0.5072	0.8627	0.168	0.279	0.3633	0.5467
SOX4	rs1740846	21621045	A,G	0.6874	0.9924	0.165	0.275	0.3615	0.5477
SOX4	rs7754702	21696403	T,C	0.9482	0.5267	1.121	1.865	0.3613	0.5478
SOX4	rs185494084	21636537	T,C	0.9884	0.4475	-0.947	1.577	0.3607	0.5481
SOX4	rs12200574	21683353	G,A	0.5092	0.842	0.169	0.282	0.3597	0.5487
SOX4	rs9368333	21743631	A,C	0.9748	0.5254	44.789	74.785	0.3587	0.5492
SOX4	rs1740847	21620469	C,A	0.6882	0.9889	0.165	0.276	0.3584	0.5494
SOX4	rs1740848	21620293	G,A	0.6882	0.9886	0.165	0.276	0.355	0.5513
SOX4	rs77273443	21620705	G,A	0.984	0.938	-59.175	99.704	0.3522	0.5528
SOX4	rs56050802	21555539	C,T	0.8664	0.6128	0.276	0.466	0.3512	0.5534
SOX4	rs9466144	21676886	G,T	0.943	0.852	51.585	87.252	0.3495	0.5544
SOX4	rs138387168	21716280	C,T	0.9765	0.7359	9.258	15.72	0.3468	0.5559
SOX4	rs201453060	21648925	R,I	0.5221	0.4872	-0.25	0.425	0.346	0.5564
SOX4	rs1740826	21651528	G,A	0.6892	0.9762	0.165	0.281	0.3431	0.5581
SOX4	rs1744877	21651554	T,C	0.6891	0.9768	0.164	0.281	0.3415	0.559
SOX4	rs116878740	21665291	A,G	0.9855	0.5757	-69.761	119.424	0.3412	0.5591
SOX4	rs9466141	21673993	C,T	0.9236	0.9976	-206.21	354.041	0.3392	0.5603
SOX4	rs113889001	21695381	A,C	0.9496	0.5091	1.238	2.143	0.3336	0.5636
SOX4	rs36093392	21601725	D,R	0.7127	0.8142	0.193	0.334	0.333	0.5639
SOX4	rs112101248	21683625	T,C	0.9893	0.5442	29.832	52.057	0.3284	0.5666
SOX4	rs2749681	21683792	A,G	0.5085	0.771	0.169	0.295	0.3263	0.5678
SOX4	rs35857450	21622415	D,R	0.6703	0.8902	0.166	0.29	0.3263	0.5679
SOX4	rs2876599	21714103	C,G	0.9889	0.7808	161.775	284.437	0.3235	0.5695
SOX4	rs1740832	21646725	A,G	0.756	0.938	0.173	0.305	0.322	0.5704
SOX4	rs189742413	21683505	C,T	0.984	0.4632	-1.002	1.767	0.322	0.5704

SOX4	rs13219086	21683929	G,C	0.5137	0.7654	0.167	0.296	0.3176	0.573
SOX4	rs13215657	21683714	C,T	0.511	0.7765	0.166	0.294	0.3175	0.5731
SOX4	rs35612989	21663201	R,I	0.4311	0.4511	-0.214	0.38	0.317	0.5734
SOX4	rs1744875	21648534	C,A	0.4998	0.4732	-0.238	0.423	0.3166	0.5736
SOX4	rs141900910	21647244	C,T	0.9864	0.543	-7.016	12.491	0.3155	0.5743
SOX4	rs1744849	21612949	A,G	0.7238	1	0.158	0.282	0.3133	0.5757
SOX4	rs1615194	21648442	T,C	0.7437	0.9296	0.17	0.308	0.3073	0.5793
SOX4	rs36027263	21648358	I,R	0.7129	0.8819	0.172	0.312	0.3048	0.5809
SOX4	rs1744855	21623715	G,A	0.3803	0.9708	-0.145	0.264	0.3047	0.581
SOX4	rs117537289	21661595	C,T	0.9854	0.5671	-41.866	76.087	0.3028	0.5822
SOX4	rs116216476	21700308	T,C	0.9886	0.6467	-4.37	7.958	0.3016	0.5829
SOX4	rs1744890	21678059	A,G	0.8017	0.7924	0.161	0.298	0.2904	0.59
SOX4	rs1740853	21684065	G,A	0.5152	0.7328	0.163	0.303	0.2895	0.5906
SOX4	rs1740834	21645207	C,T	0.7742	0.9378	0.164	0.307	0.2853	0.5932
SOX4	rs1744870	21638485	A,C	0.734	0.9006	0.166	0.312	0.2839	0.5942
SOX4	rs10946462	21651830	C,T	0.6894	0.9828	0.149	0.28	0.2826	0.595
SOX4	rs7775517	21699901	T,G	0.9389	0.6039	0.729	1.372	0.2821	0.5953
SOX4	rs1740831	21647589	G,A	0.7131	0.9772	0.159	0.3	0.282	0.5954
SOX4	rs7755254	21699892	C,T	0.9389	0.6037	0.729	1.374	0.2811	0.596
SOX4	rs1744867	21634171	T,C	0.7381	0.8918	0.167	0.314	0.2809	0.5961
SOX4	rs528217121	21702677	R,D	0.9888	0.6785	-6.2	11.755	0.2782	0.5979
SOX4	rs66647983	21633079	R,D	0.5368	0.3749	-0.226	0.428	0.2772	0.5986
SOX4	rs36024930	21605537	R,D	0.7795	0.8154	0.183	0.349	0.2744	0.6004
SOX4	rs558880181	21699974	R,D	0.9241	0.5575	0.71	1.356	0.2743	0.6005
SOX4	rs79381952	21699489	T,C	0.9398	0.6026	0.729	1.394	0.2733	0.6011
SOX4	rs1744874	21640902	T,C	0.7492	0.9047	0.163	0.312	0.2718	0.6021
SOX4	rs149699118	21633666	D,R	0.7515	0.8935	0.164	0.315	0.2699	0.6034
SOX4	rs1744871	21638566	C,T	0.7505	0.8974	0.163	0.314	0.2691	0.6039
SOX4	rs1744872	21638599	C,T	0.7505	0.8975	0.163	0.314	0.2692	0.6039
SOX4	rs1744873	21638871	C,T	0.7506	0.8981	0.163	0.313	0.269	0.604
SOX4	rs117538721	21647180	T,C	0.986	0.5245	-6.292	12.17	0.2673	0.6052
SOX4	rs2749683	21635327	T,G	0.767	0.8784	0.166	0.321	0.2665	0.6057
SOX4	rs1740860	21678055	T,C	0.7991	0.7824	0.154	0.298	0.2663	0.6058
SOX4	rs397888201	21681363	R,D	0.4982	0.7168	0.159	0.308	0.2663	0.6058
SOX4	rs7738506	21702690	A,T	0.9888	0.6716	-6.075	11.827	0.2638	0.6075
SOX4	rs1740835	21637725	G,A	0.7724	0.8961	0.162	0.316	0.2629	0.6081
SOX4	rs76475505	21611890	T,G	0.9837	0.9609	-75.559	147.33	0.263	0.6081
SOX4	rs9466129	21610137	C,G	0.9838	0.9565	-75.559	147.33	0.263	0.6081
SOX4	rs9295514	21636585	A,G	0.7107	0.9234	0.159	0.311	0.2606	0.6097
SOX4	rs13219202	21683982	G,A	0.5273	0.7259	0.159	0.313	0.2591	0.6108
SOX4	rs35001920	21676726	R,D	0.4775	0.9497	0.135	0.265	0.2586	0.6111
SOX4	rs140423760	21646093	C,A	0.9884	0.552	-7.412	14.653	0.2558	0.613
SOX4	rs76944255	21582643	G,A	0.981	0.4687	-0.587	1.161	0.2555	0.6132
SOX4	rs5874825	21634749	I,R	0.7699	0.8924	0.159	0.317	0.2532	0.6148
SOX4	rs1740836	21634644	G,A	0.7705	0.8935	0.159	0.317	0.2513	0.6161

SOX4	rs79337490	21695025 T,C	0.9508	0.5151	1.094	2.188	0.2502	0.617
SOX4	rs111405274	21694954 A,G	0.9508	0.5151	1.095	2.192	0.2495	0.6174
SOX4	rs77354845	21621783 A,G	0.9841	0.9371	-45.746	91.574	0.2496	0.6174
SOX4	rs7756206	21635314 T,G	0.7423	0.8724	0.159	0.319	0.2483	0.6183
SOX4	rs2749682	21641716 A,G	0.6939	0.947	0.151	0.305	0.2438	0.6215
SOX4	rs571632729	21726382 R,I	0.896	0.3926	-0.521	1.055	0.2434	0.6217
SOX4	rs144178641	21622568 C,T	0.984	0.926	-45.125	91.585	0.2428	0.6222
SOX4	rs80061387	21579793 T,C	0.9808	0.4585	-0.569	1.163	0.2395	0.6245
SOX4	rs6456439	21645743 T,G	0.7125	0.9939	0.145	0.297	0.2384	0.6253
SOX4	rs60048426	21556513 G,A	0.947	0.5576	0.398	0.828	0.2308	0.6309
SOX4	rs548873349	21736947 R,I	0.8405	0.7508	-0.285	0.594	0.2301	0.6315
SOX4	rs9466153	21700048 C,T	0.9445	0.5887	0.706	1.481	0.2275	0.6334
SOX4	rs112243204	21582142 T,C	0.9498	0.5703	-0.284	0.597	0.2263	0.6343
SOX4	rs112103466	21699063 T,C	0.9395	0.5894	0.703	1.485	0.2239	0.6361
SOX4	rs114750919	21725361 C,G	0.9867	0.8444	-235.26	497.2	0.2239	0.6361
SOX4	rs112047759	21699028 T,C	0.9395	0.5892	0.701	1.487	0.2222	0.6374
SOX4	rs58699714	21698897 C,T	0.9395	0.5888	0.7	1.491	0.2206	0.6386
SOX4	rs76401928	21586715 G,A	0.9419	0.6097	-0.273	0.584	0.2186	0.6401
SOX4	rs150071402	21610552 G,A	0.9896	0.5952	-15.448	33.101	0.2178	0.6407
SOX4	rs9366406	21617668 T,A	0.7397	0.9296	0.141	0.302	0.2175	0.641
SOX4	rs111503674	21585461 T,C	0.941	0.5927	-0.273	0.587	0.2166	0.6416
SOX4	rs75228175	21579117 C,T	0.9479	0.5358	-0.28	0.606	0.2142	0.6435
SOX4	rs77401992	21579608 A,G	0.9474	0.5364	-0.278	0.602	0.2142	0.6435
SOX4	rs7746995	21686064 G,A	0.9859	0.4629	13.276	29.016	0.2094	0.6473
SOX4	rs79521243	21581049 T,C	0.9405	0.5684	-0.271	0.594	0.2078	0.6485
SOX4	rs1740852	21608979 T,C	0.895	0.9932	-0.227	0.499	0.2072	0.649
SOX4	rs60309622	21698465 C,T	0.9414	0.5673	0.697	1.534	0.2063	0.6497
SOX4	rs138691949	21653247 A,T	0.9812	0.5466	-6.843	15.201	0.2026	0.6526
SOX4	rs6456437	21615443 T,C	0.7388	0.9506	0.135	0.302	0.1991	0.6554
SOX4	rs1740867	21663105 C,T	0.7594	0.7883	0.137	0.308	0.1983	0.6561
SOX4	rs16885175	21726770 A,G	0.8585	0.8892	-0.296	0.67	0.1959	0.658
SOX4	rs6929483	21698094 T,C	0.9394	0.583	0.679	1.54	0.1946	0.6591
SOX4	rs6929294	21698041 T,G	0.9394	0.5831	0.681	1.544	0.1945	0.6592
SOX4	rs1740866	21664729 T,G	0.7801	0.807	0.136	0.311	0.1925	0.6609
SOX4	rs6456443	21716233 G,A	0.9818	0.9202	114.313	261.393	0.1913	0.6619
SOX4	rs116342166	21630548 T,C	0.9891	0.5558	-15.322	35.06	0.191	0.6621
SOX4	rs1744884	21663449 G,A	0.7593	0.786	0.134	0.307	0.1906	0.6624
SOX4	rs1740838	21632759 G,T	0.3851	0.7571	-0.133	0.306	0.1905	0.6625
SOX4	rs201389513	21635326 D,R	0.7672	0.8696	0.137	0.315	0.1891	0.6636
SOX4	rs1744879	21652741 A,G	0.6892	0.9997	0.12	0.277	0.1891	0.6637
SOX4	rs60908846	21646239 I,R	0.758	0.8675	0.13	0.3	0.1889	0.6639
SOX4	rs11757166	21652990 C,T	0.6883	0.9879	0.12	0.278	0.1862	0.6661
SOX4	rs11284636	21591706 R,D	0.9858	0.4225	-9.57	22.195	0.1859	0.6663
SOX4	rs1744880	21653046 A,G	0.6868	0.9845	0.12	0.278	0.185	0.6671
SOX4	rs1740849	21619809 G,A	0.3637	0.9622	-0.115	0.27	0.1821	0.6696

SOX4	rs78474141	21604475	G,T	0.9839	0.9516	-133.11	312.296	0.1817	0.6699
SOX4	rs59493338	21646242	T,A	0.701	0.8468	0.132	0.311	0.1798	0.6716
SOX4	rs112653724	21576915	G,A	0.9388	0.5234	-0.258	0.612	0.1782	0.6729
SOX4	rs1620996	21602552	C,T	0.8959	0.8139	-0.234	0.555	0.1775	0.6735
SOX4	rs7744188	21694601	T,C	0.9149	0.6416	0.593	1.413	0.1761	0.6747
SOX4	rs112617138	21576898	A,G	0.938	0.5193	-0.255	0.609	0.1752	0.6755
SOX4	rs68015368	21645499	I,R	0.8315	0.7435	0.157	0.376	0.1751	0.6756
SOX4	rs113196987	21575419	A,G	0.9232	0.5162	-0.249	0.609	0.1665	0.6833
SOX4	rs112837708	21696451	G,A	0.9648	0.4436	1.225	3.018	0.1647	0.6849
SOX4	rs9460658	21684193	C,T	0.9792	0.347	1.039	2.559	0.1647	0.6849
SOX4	rs11965374	21629739	T,G	0.9653	0.7623	-0.331	0.824	0.1615	0.6878
SOX4	rs146150526	21575243	T,C	0.9263	0.5346	-0.245	0.612	0.16	0.6891
SOX4	rs6921422	21600523	C,A	0.9308	0.9908	-0.318	0.798	0.1584	0.6906
SOX4	rs9466124	21599700	A,G	0.9309	0.9964	-0.316	0.797	0.1576	0.6914
SOX4	rs11281983	21600430	R,I	0.9309	0.9934	-0.316	0.797	0.1571	0.6918
SOX4	rs16885105	21598981	C,T	0.9309	0.9869	-0.318	0.801	0.157	0.6919
SOX4	rs111404042	21565201	G,A	0.9548	0.5207	0.335	0.845	0.1568	0.6921
SOX4	rs113534734	21596349	R,D	0.9404	0.7354	-0.352	0.891	0.1561	0.6927
SOX4	rs11433545	21672216	R,I	0.5947	0.6034	0.137	0.347	0.156	0.6929
SOX4	rs78030412	21631511	T,C	0.9731	0.7032	-0.329	0.835	0.1558	0.6931
SOX4	rs146269383	21601263	G,A	0.9772	0.8168	-0.324	0.821	0.1557	0.6932
SOX4	rs35605844	21674022	D,R	0.6185	0.9309	-0.104	0.264	0.1555	0.6933
SOX4	rs77625474	21604127	G,T	0.9308	0.9762	-0.314	0.799	0.1548	0.694
SOX4	rs1740854	21680732	A,C	0.6112	0.9639	-0.102	0.259	0.1544	0.6943
SOX4	rs9466125	21601156	A,G	0.9295	0.9574	-0.314	0.801	0.1537	0.695
SOX4	rs147960757	21606492	G,T	0.9772	0.8203	-0.32	0.821	0.152	0.6966
SOX4	rs76428292	21629756	C,A	0.974	0.7112	-0.325	0.837	0.1511	0.6975
SOX4	rs78523587	21614133	G,A	0.9764	0.7872	-0.32	0.825	0.1508	0.6978
SOX4	rs74329629	21583401	G,A	0.9656	0.5138	-0.391	1.008	0.1501	0.6984
SOX4	rs1744885	21670816	A,G	0.4476	0.9803	0.1	0.258	0.1498	0.6988
SOX4	rs1744889	21676795	A,G	0.6165	0.9936	-0.098	0.257	0.1465	0.7019
SOX4	rs2749684	21676485	C,T	0.6168	0.9872	-0.098	0.257	0.1464	0.702
SOX4	rs79753782	21594201	C,A	0.9506	0.6778	-0.347	0.909	0.1455	0.7028
SOX4	rs1740863	21670641	C,T	0.6246	0.9994	-0.098	0.257	0.1446	0.7037
SOX4	rs9466145	21677060	A,C	0.6171	1	-0.098	0.257	0.1446	0.7037
SOX4	rs60336041	21714991	A,C	0.9818	0.9007	61.327	161.727	0.1438	0.7045
SOX4	rs7740486	21714797	A,G	0.9818	0.8978	61.327	161.727	0.1438	0.7045
SOX4	rs7772335	21696185	C,T	0.8913	0.4593	-0.336	0.889	0.1431	0.7052
SOX4	rs78502915	21591248	G,T	0.9567	0.6759	-0.352	0.932	0.143	0.7054
SOX4	rs9358442	21573637	G,A	0.7034	0.4581	0.162	0.43	0.1419	0.7064
SOX4	rs912025	21716058	C,G	0.8371	0.9358	-0.196	0.521	0.1415	0.7068
SOX4	rs143393812	21633911	C,T	0.9816	0.5752	-6.302	16.947	0.1383	0.71
SOX4	rs6906888	21697966	G,A	0.9391	0.5729	0.609	1.646	0.137	0.7113
SOX4	rs111482236	21588455	T,C	0.9537	0.6111	-0.348	0.948	0.1347	0.7136
SOX4	rs116443937	21600982	A,T	0.9889	0.6106	-11.705	31.888	0.1347	0.7136

SOX4	rs9460655	21641564	C,T	0.6926	0.8571	0.111	0.303	0.1345	0.7138
SOX4	rs112117324	21606452	C,T	0.9756	0.8592	-8.341	22.814	0.1337	0.7146
SOX4	rs561618338	21639342	R,I	0.9855	0.4795	-5.943	16.252	0.1337	0.7146
SOX4	rs1744882	21657561	T,G	0.7003	0.8473	0.105	0.289	0.1315	0.7169
SOX4	rs77991965	21694060	G,A	0.9358	0.6372	0.638	1.773	0.1294	0.7191
SOX4	rs1740864	21668282	G,A	0.6096	0.9094	-0.096	0.268	0.1291	0.7194
SOX4	rs6906248	21697889	A,G	0.9391	0.5714	0.595	1.664	0.1277	0.7208
SOX4	rs80035391	21685357	G,A	0.8973	0.5163	0.3	0.841	0.1269	0.7216
SOX4	rs57761609	21683420	D,R	0.6127	0.8292	-0.1	0.283	0.1259	0.7228
SOX4	rs6929045	21697861	T,C	0.9391	0.5712	0.591	1.666	0.1258	0.7228
SOX4	rs111479343	21561070	G,T	0.9092	0.4694	0.242	0.683	0.1257	0.7229
SOX4	rs76144443	21697748	A,G	0.9391	0.5709	0.591	1.67	0.1253	0.7233
SOX4	rs114266456	21633347	G,A	0.9661	0.7099	-0.322	0.913	0.1243	0.7244
SOX4	rs6928871	21697812	T,C	0.9391	0.571	0.587	1.667	0.124	0.7248
SOX4	rs113932195	21562740	T,C	0.9088	0.469	0.24	0.685	0.1231	0.7257
SOX4	rs2749688	21658487	G,C	0.6992	0.8356	0.101	0.289	0.122	0.7268
SOX4	rs530522537	21694259	R,D	0.9305	0.6164	0.638	1.831	0.1215	0.7274
SOX4	rs9460650	21615371	T,C	0.9841	0.9776	-46.326	132.882	0.1215	0.7274
SOX4	rs118074543	21601297	C,G	0.9891	0.6166	-11.013	31.647	0.1211	0.7278
SOX4	rs115252874	21601345	A,C	0.9891	0.6163	-10.83	31.639	0.1172	0.7321
SOX4	rs1744848	21609563	C,T	0.6977	0.9669	0.104	0.305	0.1167	0.7327
SOX4	rs7759991	21609547	C,T	0.6977	0.9669	0.104	0.305	0.1158	0.7337
SOX4	rs7772258	21686985	T,C	0.8466	0.7118	0.235	0.693	0.1149	0.7347
SOX4	rs7739775	21727465	C,T	0.87	0.9769	-0.223	0.664	0.1132	0.7366
SOX4	rs114613272	21721382	C,T	0.984	0.8169	15.498	46.324	0.1119	0.7379
SOX4	rs77708052	21605375	C,T	0.98	0.7948	-0.304	0.908	0.1118	0.7381
SOX4	rs78825652	21609539	I,R	0.6732	0.9671	0.102	0.305	0.1116	0.7383
SOX4	rs78225455	21566785	T,A	0.9087	0.4686	0.226	0.687	0.1077	0.7427
SOX4	rs78686872	21566786	T,C	0.9087	0.4686	0.225	0.688	0.1073	0.7432
SOX4	rs77394991	21735578	C,T	0.8447	0.9263	-0.176	0.541	0.1063	0.7444
SOX4	rs58919806	21570038	G,A	0.8921	0.397	0.229	0.704	0.106	0.7448
SOX4	rs941990	21658881	A,G	0.6778	0.8561	0.093	0.287	0.1039	0.7471
SOX4	rs370328808	21641504	D,R	0.7285	0.8536	0.095	0.296	0.1038	0.7474
SOX4	rs529643978	21641557	D,R	0.7285	0.854	0.095	0.296	0.1037	0.7474
SOX4	rs562290828	21641555	D,R	0.7285	0.8538	0.095	0.296	0.1034	0.7478
SOX4	rs113411153	21641562	D,R	0.7285	0.8541	0.095	0.296	0.1033	0.7479
SOX4	rs561593549	21641496	C,T	0.7285	0.8534	0.095	0.296	0.1033	0.7479
SOX4	rs74831068	21693978	T,C	0.8189	0.778	0.203	0.634	0.103	0.7483
SOX4	rs112395953	21727909	A,C	0.885	0.9741	-0.211	0.665	0.101	0.7507
SOX4	rs59015153	21574306	T,A	0.9504	0.4712	-0.332	1.071	0.096	0.7567
SOX4	rs531584400	21574100	R,D	0.9506	0.471	-0.331	1.073	0.0953	0.7575
SOX4	rs79232286	21689146	G,A	0.8483	0.7428	0.21	0.68	0.0953	0.7575
SOX4	rs4712624	21693152	A,G	0.843	0.7383	0.209	0.678	0.0953	0.7576
SOX4	rs116016141	21687920	C,T	0.988	0.5009	-14.151	46.102	0.0942	0.7589
SOX4	rs1740837	21633917	C,T	0.6783	0.9174	0.089	0.29	0.0931	0.7603

SOX4	rs571708107	21634038	D,R	0.6795	0.8686	0.087	0.294	0.0883	0.7663
SOX4	rs147795739	21606396	C,G	0.9894	0.6082	-9.227	31.172	0.0876	0.7672
SOX4	rs1321253	21689813	T,A	0.8723	0.7273	0.204	0.691	0.0868	0.7683
SOX4	rs1973987	21687659	G,T	0.8711	0.6956	0.207	0.706	0.0859	0.7694
SOX4	rs1740868	21660205	G,T	0.6798	0.8487	0.083	0.287	0.0845	0.7712
SOX4	rs1740833	21646435	A,G	0.6798	0.9621	0.082	0.281	0.0844	0.7714
SOX4	rs10643502	21641556	T,C	0.688	0.853	0.088	0.303	0.0841	0.7718
SOX4	rs12524788	21690518	T,G	0.8725	0.7375	0.198	0.685	0.0838	0.7722
SOX4	rs77992585	21687331	G,A	0.8724	0.6862	0.206	0.713	0.0834	0.7727
SOX4	rs75051132	21589799	T,A	0.98	0.6365	-0.302	1.047	0.0831	0.7732
SOX4	rs1622043	21609285	A,G	0.6925	0.9814	0.087	0.305	0.081	0.7759
SOX4	rs11361021	21608909	D,R	0.6928	0.9683	0.087	0.306	0.0801	0.7772
SOX4	rs80309179	21644884	G,T	0.9894	0.4434	2.133	7.539	0.08	0.7772
SOX4	rs79684204	21687368	A,C	0.9748	0.5098	1.318	4.669	0.0796	0.7778
SOX4	rs571788443	21558875	R,D	0.8581	0.3304	0.18	0.643	0.0785	0.7793
SOX4	rs73737557	21570448	T,C	0.9333	0.4619	-0.233	0.831	0.0783	0.7796
SOX4	rs75629001	21689221	C,T	0.8716	0.708	0.195	0.699	0.078	0.78
SOX4	rs76257188	21688091	T,G	0.8712	0.7018	0.196	0.705	0.0776	0.7806
SOX4	rs200447839	21689115	R,D	0.8701	0.7188	0.192	0.69	0.0772	0.7811
SOX4	rs1617781	21608766	A,G	0.693	0.9819	0.084	0.305	0.0764	0.7822
SOX4	rs11438117	21660100	R,I	0.4211	0.4868	-0.096	0.35	0.0757	0.7833
SOX4	rs148767257	21687606	C,T	0.9752	0.5064	1.28	4.666	0.0752	0.7838
SOX4	rs78278852	21688571	G,A	0.9753	0.5113	1.275	4.661	0.0748	0.7845
SOX4	rs76857610	21685543	G,T	0.9888	0.4734	1.456	5.328	0.0747	0.7846
SOX4	rs115180462	21686653	G,C	0.9752	0.5032	1.274	4.673	0.0743	0.7851
SOX4	rs7747757	21686714	C,T	0.9752	0.5035	1.274	4.673	0.0743	0.7851
SOX4	rs7753451	21607833	T,C	0.9894	0.606	-8.57	31.461	0.0742	0.7853
SOX4	rs142460847	21687632	A,G	0.9751	0.5044	1.235	4.669	0.07	0.7913
SOX4	rs7746424	21685920	C,T	0.9762	0.4981	1.246	4.709	0.07	0.7914
SOX4	rs7746432	21685933	C,T	0.9755	0.5041	1.246	4.709	0.07	0.7914
SOX4	rs140066406	21728813	R,I	0.8701	0.9744	-0.175	0.664	0.0695	0.792
SOX4	rs7746895	21686168	C,A	0.9752	0.5028	1.224	4.675	0.0685	0.7935
SOX4	rs9295513	21599766	G,A	0.9746	0.8988	-35.614	137.605	0.067	0.7958
SOX4	rs114455294	21693186	A,T	0.9731	0.5546	0.54	2.13	0.0642	0.7999
SOX4	rs9466160	21722771	A,G	0.9736	0.8106	4.303	17.159	0.0629	0.802
SOX4	rs7746292	21685907	A,G	0.9762	0.4817	1.185	4.729	0.0628	0.8021
SOX4	rs139581361	21722128	G,A	0.9879	0.8119	16.97	69.358	0.0599	0.8067
SOX4	rs540918539	21717464	R,D	0.9882	0.804	-106.89	438.659	0.0594	0.8075
SOX4	rs12528435	21562732	G,A	0.8866	0.355	-0.199	0.816	0.0592	0.8077
SOX4	rs5874828	21692948	R,D	0.8716	0.725	0.166	0.692	0.0578	0.81
SOX4	rs79002033	21706995	C,T	0.9739	0.6771	2.141	9.082	0.0555	0.8137
SOX4	rs144306476	21721932	T,G	0.989	0.6617	4.869	22.49	0.0469	0.8286
SOX4	rs78712702	21700242	T,A	0.9843	0.4664	-0.368	1.721	0.0458	0.8306
SOX4	rs111684701	21608562	C,T	0.9809	0.9509	72.743	369.311	0.0388	0.8439
SOX4	rs112892524	21608321	C,T	0.981	0.9464	72.743	369.311	0.0388	0.8439

SOX4	rs35829440	21655243	R,I	0.602	0.3134	-0.091	0.477	0.0366	0.8482
SOX4	rs16885170	21716554	G,A	0.8229	0.9708	-0.093	0.492	0.0357	0.8501
SOX4	rs116258702	21618081	C,T	0.9891	0.5647	-5.682	31.864	0.0318	0.8585
SOX4	rs149746556	21731479	R,D	0.9872	0.7098	0.22	1.307	0.0284	0.8662
SOX4	rs78584490	21732145	C,T	0.9872	0.7096	0.219	1.307	0.0281	0.8669
SOX4	rs142355149	21692662	A,C	0.9804	0.36	0.869	5.793	0.0225	0.8808
SOX4	rs75935729	21733252	C,A	0.9872	0.709	0.195	1.312	0.0221	0.8818
SOX4	rs147596047	21733524	R,D	0.9872	0.709	0.193	1.312	0.0217	0.8829
SOX4	rs77258728	21734254	G,A	0.9872	0.709	0.184	1.314	0.0196	0.8887
SOX4	rs115733488	21695961	T,C	0.9892	0.5305	0.548	4.307	0.0162	0.8987
SOX4	rs141765572	21679089	G,T	0.9877	0.5484	0.208	1.671	0.0155	0.901
SOX4	rs148775927	21677832	C,G	0.9884	0.5129	0.197	1.624	0.0148	0.9033
SOX4	rs71563992	21655825	G,T	0.9888	0.8713	4.382	36.378	0.0145	0.9041
SOX4	rs113815998	21709365	G,T	0.9608	0.7324	0.156	1.296	0.0144	0.9043
SOX4	rs149768565	21719941	R,D	0.9754	0.6872	2.662	24.913	0.0114	0.9149
SOX4	rs79853707	21699451	C,T	0.986	0.5502	0.217	2.033	0.0114	0.9151
SOX4	rs111374956	21699545	G,C	0.9871	0.5681	0.211	2.022	0.0109	0.917
SOX4	rs113183700	21702524	A,G	0.9869	0.5842	0.18	1.739	0.0107	0.9177
SOX4	rs111928162	21706372	T,C	0.9868	0.6035	0.156	1.536	0.0103	0.9193
SOX4	rs116300465	21738509	T,G	0.8638	0.9326	-0.056	0.564	0.0097	0.9214
SOX4	rs182063949	21738643	T,A	0.9864	0.6453	0.124	1.344	0.0086	0.9262
SOX4	rs9466128	21606679	G,T	0.3766	0.995	-0.027	0.293	0.0085	0.9266
SOX4	rs78937245	21738761	C,T	0.9864	0.6447	0.122	1.344	0.0083	0.9274
SOX4	rs6900676	21697176	A,G	0.9471	0.5384	0.183	2.045	0.008	0.9286
SOX4	rs6900485	21697055	A,T	0.9471	0.5382	0.178	2.048	0.0076	0.9306
SOX4	rs1744866	21631188	C,T	0.9885	0.3807	-0.484	5.711	0.0072	0.9324
SOX4	rs139419250	21696871	R,I	0.9475	0.5307	0.172	2.054	0.007	0.9332
SOX4	rs7753199	21717706	G,A	0.9819	0.9391	46.218	553.967	0.007	0.9335
SOX4	rs7757232	21717818	G,A	0.9819	0.9404	46.218	553.967	0.007	0.9335
SOX4	rs7757467	21718123	C,T	0.9813	0.9676	92.436	1107.93	0.007	0.9335
SOX4	rs74323084	21645152	C,G	0.9857	0.7691	0.09	1.189	0.0057	0.9396
SOX4	rs9466143	21676688	A,T	0.943	0.8542	-6.405	86.154	0.0055	0.9407
SOX4	rs145778004	21696926	R,I	0.9468	0.5319	0.151	2.056	0.0054	0.9415
SOX4	rs116779637	21718919	G,T	0.9886	0.7935	-8.934	138.492	0.0042	0.9486
SOX4	rs149385127	21642947	G,A	0.9849	0.723	0.077	1.189	0.0042	0.9486
SOX4	rs6925407	21724100	G,C	0.9884	0.9399	-0.518	8.029	0.0042	0.9486
SOX4	rs78378200	21647275	T,C	0.985	0.7319	0.075	1.192	0.0039	0.9499
SOX4	rs549313068	21638634	R,D	0.9854	0.7268	0.072	1.191	0.0037	0.9515
SOX4	rs141253251	21567552	G,A	0.9772	0.4147	-0.089	1.523	0.0034	0.9534
SOX4	rs141898580	21709985	C,T	0.9816	0.8379	-2.697	48.844	0.003	0.956
SOX4	rs114981716	21562453	G,A	0.977	0.3896	-0.085	1.565	0.0029	0.9568
SOX4	rs79883278	21720741	C,T	0.9819	0.8353	2.561	48.166	0.0028	0.9576
SOX4	rs4710982	21733835	G,C	0.8653	0.9343	0.031	0.588	0.0028	0.9581
SOX4	rs9460670	21731138	C,A	0.877	0.9736	0.03	0.588	0.0026	0.9593
SOX4	rs1744856	21625895	G,A	0.6341	0.4717	-0.02	0.41	0.0023	0.9615

SOX4	rs12528487	21735354	A,G	0.8629	0.9338	0.028	0.592	0.0022	0.9626
SOX4	rs113064891	21606092	R,I	0.9811	0.9369	8.363	178.6	0.0022	0.9627
SOX4	rs115900264	21738499	A,G	0.8705	0.965	0.027	0.589	0.0021	0.9631
SOX4	rs561391795	21725044	R,D	0.9346	0.4431	0.066	1.503	0.0019	0.9651
SOX4	rs6933476	21720156	G,A	0.9819	0.8936	3.22	78.744	0.0017	0.9674
SOX4	rs56175726	21566498	G,A	0.9534	0.3503	0.059	1.526	0.0015	0.969
SOX4	rs12525631	21730840	C,T	0.8794	0.9968	0.023	0.585	0.0015	0.9692
SOX4	rs16885189	21729682	G,A	0.8667	0.9973	0.023	0.585	0.0015	0.9692
SOX4	rs4712633	21738249	A,G	0.8598	1	0.023	0.585	0.0015	0.9692
SOX4	rs61157774	21556217	C,T	0.9598	0.3134	-0.05	1.785	0.0008	0.9776
SOX4	rs59880840	21556245	G,A	0.9598	0.3138	-0.045	1.785	0.0006	0.9798
SOX4	rs150555050	21561633	G,A	0.9894	0.5125	-3.624	144.537	0.0006	0.98
SOX4	rs7739666	21718260	T,C	0.9818	0.939	-10.388	502.462	0.0004	0.9835
SOX4	rs78265086	21720541	T,C	0.9826	0.8636	1.146	65.219	0.0003	0.986
SOX4	rs60459153	21570941	G,A	0.9572	0.4198	0.026	1.478	0.0003	0.9862
SOX4	rs545611803	21688770	R,I	0.8158	0.533	-0.009	0.615	0.0002	0.9878
SOX4	rs75179770	21568397	C,T	0.9582	0.4017	0.015	1.514	0.0001	0.9919
SOX4	rs61215435	21721256	C,T	0.9893	0.7083	-0.4	41.055	0.0001	0.9922
SOX4	rs61197304	21570213	G,A	0.9581	0.4232	0.002	1.484	0	0.9989
SOX4	rs117396734	21615374	A,T	0.9894	0.5869	0.007	30.415	0	0.9998
SOX4	rs7739235	21609345	A,T	0.9799	0.962	0	1E+15	0	1
SOX4	rs7740142	21609635	G,A	0.9809	0.955	0	1E+15	0	1
SOX4	rs9460649	21614884	G,A	0.9843	0.994	0	1E+15	0	1

Legend:

TRAIT: eQTL for which we are testing the marker's association with.

MARKER: SNP being tested.

BP: Base position of marker within chromosome 6.

ALLELES: Allele 1, Allele 2

FREQ1: Frequency of Allele 1

RSQR: Squared correlation between imputed and true genotypes.

EFFECT2: Beta estimate using Allele 2 as the risk allele.

STDERR: Standard error of beta estimate.

CHISQ: Chi-square statistic of association test.

PVALUE: P-value of association test.

Supplementary Table 3: Studies of 6p22.3 Genes and Cancer using SNP or Expression Data

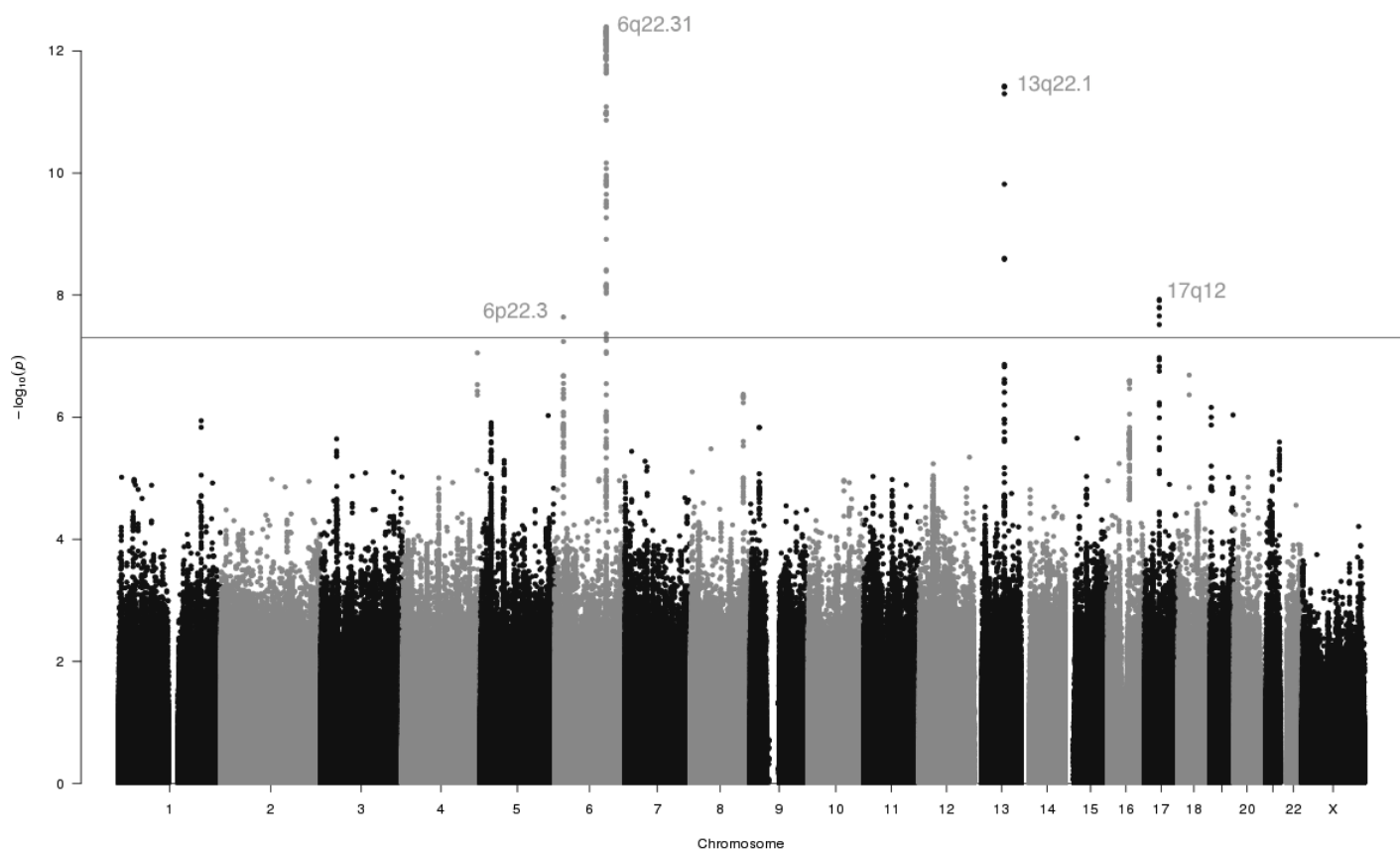
Gene	Study	Study Type	Brief Description	# of Cases	Top SNP (Risk Allele)	Effect	P	R2 to our top SNP	Significant	PMID
CASC15	Maris et al. <u>N Engl J Med.</u> 2008	SNP	GWAS of clinically aggressive neuroblastoma.	1251	rs6939340 (G)	OR: 1.40 (1.26-1.56)	7.01E-10	0.002	Y	18463370
	Diskin et al. <u>Nat Genet.</u> 2012	SNP	GWAS of neuroblastoma.	2101	rs9295536 (A)	OR: 1.357	7.80E-16	0.003	Y	22941191
	Latorre et al. <u>Cancer Epidemiol Biomarkers Prev.</u> 2012	SNP	GWAS of neuroblastoma in African Americans.	390	rs9295536 (C)	OR: 0.90 (0.73-1.10)	0.3	0.003	N	22328350
	He et al. <u>Tumour Biol.</u> 2015	SNP	Hospital-based case control study (Taqman assay) of neuroblastoma in Han Chinese.	201	rs6939340 (A)	OR: 0.53 (0.38-0.74)	AG: 0.006, AA: 0.030	0.002	Y	26307394
	Lessard et al. <u>J Invest Dermatol.</u> 2015	Expression	Tissue microarray with FFPE melanoma LN metastasis specimens: high CASC15 expression is associated with lower 10-year disease free survival	141	N/A	NR	0.002	N/A	Y	26016895
CDKAL1	Kuruma et al. <u>World J Gastroenterol.</u> 2014	SNP	Case-control study (SNPtype assay) of pancreatic cancer in Japanese.	360	rs2206734 (A)	RR- AG: 1.18 (0.85-1.64), AA: 1.21 (0.78-1.89)	NR	0	N	25516658
	Ma et al. <u>Diabetes Res Clin Pract.</u> 2014	SNP	Case-control study (Sequenom MassARRAY) of cancer incidence in Han Chinese with T2D	429	rs7756992 (G)	HR: 0.80 (0.65-1.00)	0.048	0	Y	24468095
	Sainz et al. <u>J Clin Endocrinol Metab.</u> 2012	SNP	Case-control study (KASPar assay) of colorectal cancer risk	1782	rs7754840 (C)	OR: 0.94 (0.85-1.04)	0.03 in males	0	Y	22419714
	Meyer et al. <u>Cancer Epidemiol Biomarkers Prev.</u> 2010	SNP	Case-control study (TaqMan assay) of prostate cancer incidence.	397	rs7754840 (C)	HR: 1.01 (0.87, 1.18)	NR	0	N	20142250
	Figuerola et al. <u>Hum Mol Genet.</u> 2014	SNP	GWAS of bladder cancer	7697	rs4510656 (C)	OR 0.89	6.98E-07	0	Not GWS	24163127
SOX4*	Chen et al. <u>Clin Transl Oncol.</u> 2015	Expression	Meta-analysis of 10 studies with >1000 cancer patients: SOX4 overexpression correlated with poor overall survival	1348	N/A	HR: 1.67 (1.01-2.78)	NR	N/A	Y	26250764
	Song et al. <u>Tumour Biol.</u> 2015	Expression	mRNA and protein expression of SOX4 in breast cancer and adjacent normal: overexpression is an unfavorable prognostic factor regardless of stage, tumor size, metastasis	148	N/A	HR: 1.67 (1.04-2.66)	OS: 0.033	N/A	Y	25592378
	Walter et al. <u>Future Oncol.</u> 2015	Expression	mRNA expression of SOX4 in neuroendocrine tumors of the lung.	60	N/A	N/A	OS: 0.0002	N/A	Y	25804118
	Lu et al. <u>Tumour Biol.</u> 2015	Expression	SOX4 overexpression associated with poor prognosis as measured by tumour recurrence in chondrosarcoma patients.	92	N/A	HR: 3.67 (0.28-48.37)	RFS: 0.035	N/A	Y	25572678
	Wang et al. <u>Mol Cell Biochem.</u> 2015	Expression	SOX4 mRNA and protein expression were markedly higher in NSCLC tissues than in normal lung tissues.	168	N/A	HR: 3.21 (2.06-5.02)	OS: <0.001	N/A	Y	25567207
	Zhou et al. <u>J Cell Biochem.</u> 2015	Expression	High expression levels of SOX4 mRNA were correlated with worse overall survival in Xuanwei females with lung cancer.	96	N/A	NR	OS: < 0.001	N/A	Y	25565486
	Huang et al. 2009 <u>Cancer Res.</u> 2009	Expression	SOX4 overexpressed in endometrial tumors compared with normal tissue from controls without endometrial cancer.	74	N/A	N/A	P < 0.005	N/A	Y	19887623

* Over 150 articles on SOX4 expression and cancer have been published since 1995. Articles published in 2015 and those related specifically to endometrial cancer are presented here.

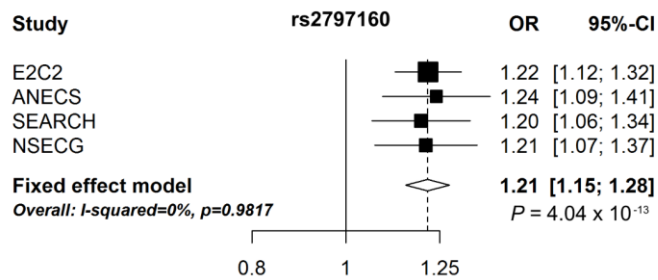
NR: Not Reported, OS: Overall Survival, RFS: Recurrence Free Survival

Supplementary Table 4. Description of studies included in meta-analysis.

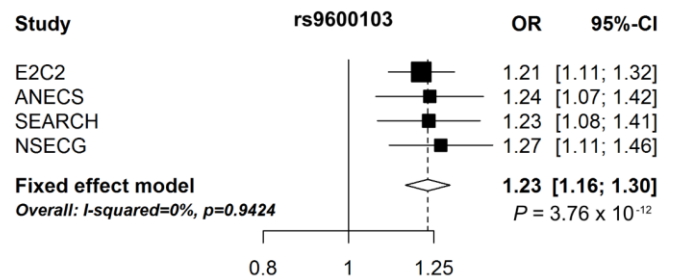
Cohort	Cases	Controls	Subtype	Age Criteria	Platform
ANECs	606	3083	Endometrioid	18-79	Illumina Infinium 610K
SEARCH	681	5190	Endometrioid	18-69	Illumina Infinium 610K, Illumina Infinium 1.2M
NSECG	925	895	All	≤70	Illumina 660K, Illumina Hap550
E2C2	2695	2777	All	>18	Illumina Human OmniExpress, Illumina Human 660W
Total	4907	11945			



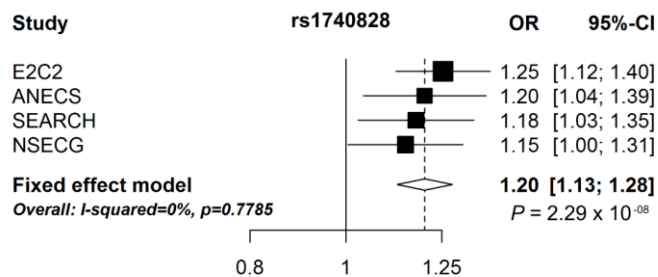
A.



B.



C.



D.

